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MEASUREMENT OF NOISE EXPOSURE INDEX OF MINERS AT DRILLING OPERATIONS AT DENISON MINES LTD. IN ELLIOT LAKE

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MEASUREMENT OF NOISE EXPOSURE INDEX OF MINERS AT DRILLING OPERATIONS AT DENISON MINES LTD. IN ELLIOT LAKE

by

M.U. Savich*

ABSTRACT

The following is a discussion of problems, methods, and interpretations of Noise Exposure Index (NEI) measurements taken with a new generation of noise dosimeters. Measurement readings are represented in L_{OSHA} values instead of noise dose or NEI. Analysis of the measurements revealed that the jumbo operator is most exposed to noise (L_{OSHA} = 103.8 dBA). The roof bolter, jack leg miner, long hole driller and slope trainee are slightly less exposed ($L_{OSHA} \simeq$ 100 dBA). The diamond driller, giraffe and teledyne operator have an L_{OSHA} level of approximately 97 dBA.

A renewed effort is being made to bring more light into measurements to ensure that their results are as close as possible to management, for the sake of better security and higher productivity in mines.

In all, 114 measurements were taken, eight of which were rejected because either workers were not wearing their dosimeters properly, or the mining environment contained too much humidity, vibration and dust.

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INTRODUCTION

While much attention has been focused on the measurement of noise in mining environments in terms of noise levels, relatively little has been done towards the profiling of noise exposure patterns during a shift using a computer program.

The value and limitations of measurements of noise exposure index from Appendices 1 to 114 are evident from Table 1. The table shows a general uniformity for the same operations over 8-hour periods, but also shows considerable differences between measurements taken from the same category of job. These measurements support the concept of different productivity of miners during a shift.

This report discusses the problems, methods and interpretations of Noise Exposure Index (NEI) measurements with a new generation of noise dosimeters. This discussion is very important for three reasons:

1. Relation between workers and dosimeters;
2. Relation between dosimeters and mining environment, such as humidity, vibration and dust;
3. Relation between noise and work in mines (productivity and time study).

JUMBO OPERATOR

Measurements on 21 jumbo operators were performed (Appendices 1 to 21). Two measurements were rejected as the readings in the 20-30 dBA range were too high due to humidity effects on the measuring instrument. For this reason dosimeters should be hermetically sealed in carrying cases as even a small leakage can be very damaging on results. From Table 1 it is evident that three levels of noise (LOSHA) exist:

1. 90-95 dBA has no major influence on the noise exposure index. Usually,

Table 1 - Results of LOSHA and time during work day

No.	User Code	Job Code	Operation	Time (min)	LOSHA (dBA)	Frequency Distribution (min/dBA)												Σ Time (min)	Note
						60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100-104	105-109	110-114	115-119		
1	4388	281	Jumbo Operator	480	99.2	42	9	10	27	45	29	46	70	113	89	0	0	480	CC201
2	2809	080	Jumbo Operator	480	105.4	47	19	21	22	44	61	60	50	9	13	90	44	480	CC201
3	5146	281	Jumbo Operator	480	105.1	41	27	29	32	26	45	60	64	8	17	91	40	480	CC201
4	2901	281	Jumbo Operator	480	99.8	49	27	22	33	37	36	33	68	61	100	14	0	480	CC201
5	4074	281	Jumbo Operator	480	97.7	30	17	21	17	33	60	96	66	84	54	2	0	480	CC202
6	4473	272	Jumbo Operator	480	96.6	105	25	36	33	82	48	40	37	29	15	28	2	480	CC202
7	4090	281	Jumbo Operator	480	110.3	8	12	22	42	38	23	72	26	22	21	36	158	480	CC203
8	2901	281	Jumbo Operator	480	101.3	107	16	15	19	23	7	14	60	66	147	6	0	480	CC204
9	4174	270	Jumbo Operator	480	108.2	19	18	16	8	10	10	35	109	26	20	153	56	480	CC210
10	4290	271	Jumbo Operator	422	97.8	203	26	27	33	28	51	22	13	3	31	43	0	480	CC210
11	7086	281	Jumbo Operator	480	103.2	64	39	43	22	47	47	69	15	15	16	86	17	480	CC210
12	4227	270	Jumbo Operator	480	97.4	114	13	10	12	69	40	37	40	78	65	2	0	480	CC210
13	4296	281	Jumbo Operator	480	98.5	182	25	29	14	39	63	52	19	9	5	21	22	480	CC210
14	4296	281	Jumbo Operator	480	104.2	67	10	8	11	34	50	73	45	30	33	112	7	480	CC210
15	4227	270	Jumbo Operator	480	107.7	55	13	2	5	17	45	63	59	19	55	68	79	480	CC210
16*	7786	272	Jumbo Operator	480	111.7	48	12	6	3	3	25	49	131	24	11	11	157	480	28206
17	2371	281	Jumbo Operator	480	105.5	75	32	26	19	26	63	32	38	20	16	84	49	480	26055
18	7653	JDO	Jumbo Drill Op.	480	99.4	157	14	5	4	7	71	62	46	24	47	42	1	480	35950
19*	4673	170	Jumbo Operator	480	112.3	61	33	17	34	27	27	46	30	26	12	20	147	480	35950
20	4296	C80	Jumbo Operator	480	93.7	56	38	30	21	49	142	68	39	11	6	20	0	480	42954
21	4227	C80	Jumbo Operator	480	76.3	318	59	44	23	6	4	10	16	0	0	0	0	480	42954
			Mean	476.95	103.78	91.53	23.11	21.89	20.89	34.74	47.11	49.68	46.32	33	39.47	47.26	25	480	
			Std. Dev.	13.3	Log Aver.	76.8	12.47	11.98	10.55	19.5	30.18	22.52	24.09	31.72	38.33	44.56	40.3	480	
22	4597	272	Roof Bolter	480	103.2	55	13	13	12	13	24	40	67	63	116	64	0	480	CC201
23	0335	271	Roof Bolter	480	101.5	17	18	49	11	142	21	55	37	17	19	94	0	480	CC201
24*	7635	271	Roof Bolter	170	96	369	13	11	8	7	13	20	15	4	16	4	0	480	CC202
25	4123	271	Rock Bolter	480	96.1	75	18	31	52	52	60	43	35	54	60	0	0	480	CC202
26	7913	281	Rock Bolter	480	99.1	38	10	19	13	17	31	66	91	135	60	0	0	480	CC202
27	4155	010	Rock Bolter	480	99.1	86	24	18	20	70	69	57	43	17	25	50	1	480	CC204
28	1108	281	Rock Bolter	480	106.2	24	14	21	13	13	45	45	43	36	67	152	7	480	28205
29	4194	271	Rock Bolter	480	86.8	216	42	30	19	27	41	47	40	18	0	0	0	480	CC205
30	4350	272	Rock Bolter	480	84.9	264	23	17	17	18	55	40	39	7	0	0	0	480	CC205

* Not estimated

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Table 1 - Cont.

No.	User Code	Job Code	Operation	Time (min)	L_{OSHA} (dBA)	Frequency Distribution (min/dBA)												Σ Time (min)	Note
						60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100-104	105-109	110-114	115-119		
31	4089	281	Roof Bolter	480	85.2	138	48	46	31	51	86	48	29	3	0	0	0	480	CC210
32	4155	010	Roof Bolter	480	92.9	57	18	29	44	87	87	39	45	64	10	0	0	480	CC210
33	4089	281	Roof Bolter	480	96.2	60	32	40	31	17	33	86	74	53	54	0	0	480	CC210
34	4695	214	Roof Bolter	480	100	90	14	15	16	12	79	90	37	28	50	49	0	480	CC210
35	7610	281	Roof Bolter	480	94.2	81	28	27	19	34	40	74	92	72	13	0	0	480	CC210
36	4195	271	Roof Bolter	480	90.4	207	40	27	20	43	37	36	35	13	21	1	0	480	20960
37	4350	272	Roof Bolter	462	90.5	250	29	21	26	39	23	23	33	11	22	3	0	480	20960
38*	0335	271	Roof Bolter	480	112.8	50	32	12	8	19	10	28	16	3	1	36	265	480	20960
39	2814	281	Roof Bolter	480	93.9	187	35	33	33	22	34	50	33	16	21	16	0	480	22304
40	4719	296	Roof Bolter	480	95.7	131	39	20	22	16	34	72	67	44	21	14	0	480	26210
41	7610	210	Roof Bolter	468	102.5	73	19	22	11	8	12	80	75	30	84	66	0	480	42072
42	4631	271	Roof Bolter	480	103.1	43	12	11	7	4	4	84	121	61	59	73	1	480	45961
			Mean	478.42	99.35	110.11	25.05	25.74	21.95	36.05	42.89	56.58	54.53	39.05	36.95	30.63	0.47	480	
			Std. Dev.	4.83	Log Aver.	78.02	11.5	10.63	11.78	33.91	24.01	19.51	25.85	31.94	31.82	42.98	1.61	480	
43	4566	272	Jackleg Miner	480	108.8	156	87	59	28	24	38	39	27	15	1	5	1	480	CC210
44	4566	272	Jackleg Miner	480	88.6	92	59	40	33	100	52	34	43	23	4	0	0	480	CC210
45	4379	281	Jackleg Miner	480	84.8	229	31	30	23	33	30	60	42	2	0	0	0	480	CC201
46	4624	DAN	Driller "A" Miner	480	89.2	131	60	77	76	38	19	21	18	24	12	4	0	480	98013
47	4624	DBA	Driller "A" Miner	480	96.2	179	63	53	33	32	13	13	17	14	28	35	0	480	98013
48	4769	DRL	Driller	480	82.3	259	89	44	15	4	17	16	26	9	1	0	0	480	32950
49	4766	DRI	Driller	480	97.3	131	47	37	21	44	17	38	20	29	93	3	0	480	32950
50	7745	DGN	Driller Gen Miner	480	99.2	101	26	19	12	26	19	19	106	45	103	4	0	480	32950
51	4486	DGN	Driller Gen Miner	480	98.8	169	5	3	3	21	59	55	53	31	53	22	6	480	35950
52	4637	DGN	Driller Gen Miner	480	109.1	145	32	16	16	30	19	30	16	11	19	36	110	480	98004
53*	4410	DGN	Driller Gen Miner	336	77.4	298	66	32	32	10	31	7	3	1	0	0	0	480	98034
54	4637	DGN	Driller Gen Miner	480	106.9	164	35	27	20	19	27	43	11	13	16	33	72	480	98044
55	4636	DGN	Driller Gen Miner	480	104	160	39	44	27	29	28	31	28	12	19	27	36	480	29003
56	2525	270	Miner	480	81.1	242	58	36	29	40	20	38	16	1	0	0	0	480	20960
57	4770	272	Miner	480	94.4	234	41	39	17	28	11	19	12	26	38	15	0	480	29003
58	4636	272	Miner	480	92.7	177	53	55	44	35	24	19	19	21	20	13	0	480	29003
59	4549	272	General Miner	480	98.2	146	55	42	31	38	12	25	44	33	10	36	6	480	29003
60	4693	272	General Miner	480	92.9	256	36	32	20	36	13	14	15	15	33	10	0	480	32016

* Not estimated

Cont. overleaf

Table 1 - Cont.

No.	User Code	Job Code	Operation	Time (min)	L_{OSHA} (dBA)	Frequency Distribution (min/dBA)												Σ Time (min)	Note
						60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100-104	105-109	110-114	115-119		
61	4766	272	Miner	480	102.5	107	31	34	20	27	28	37	23	16	74	81	2	480	32950
62	7289	270	"A" Miner	480	97.3	135	44	37	44	30	30	43	52	22	12	20	11	480	35950
63	4768	272	Miner	480	100.1	51	33	34	12	17	35	32	100	47	102	17	0	480	35950
64	4608	272	General Miner	480	80.5	237	41	21	36	76	36	17	16	0	0	0	0	480	98013
65	4769	272	Miner	480	79.6	152	52	68	80	67	38	12	11	0	0	0	0	480	98013
66	4686	272	Miner	480	97.7	204	52	51	40	48	24	15	7	4	7	10	18	480	98013
67	4761	272	General Miner	480	77.4	288	19	24	23	93	15	14	4	0	0	0	0	480	98013
68	4687	271	Miner	480	92.6	100	40	20	17	24	142	61	37	12	20	7	0	480	42953
69	5543	270	Miner	480	104.8	83	21	17	29	86	68	9	15	21	21	63	47	480	LEAPO
70	8397	271	Miner	480	98.7	30	9	24	32	151	83	36	34	13	20	45	3	480	LEAPO
71	4793	270	Miner	480	81.7	209	44	52	33	30	42	61	8	1	0	0	0	480	1SHAF
72	4714	274	Miner	480	93.7	16	6	17	15	240	74	44	32	7	14	12	3	480	2GARA
73	4624	272	Miner	480	89	88	51	93	70	51	33	13	18	63	0	0	0	480	SHAF1
74	4640	273	Miner Helper	480	97.5	120	17	9	10	15	26	28	108	100	44	3	0	480	29950
75	4688	274	Miner Helper	480	76.2	263	69	45	34	25	24	15	5	0	0	0	0	480	30950
76	4694	MH1	Miner Helper	480	99	81	30	25	26	37	52	52	42	18	105	12	0	480	32950
77*	4701	273	Miner Helper	325	94.8	317	15	10	4	15	35	18	21	14	18	13	0	480	32950
78	4694	MIH	Miner Helper	480	89.5	97	63	35	38	88	72	34	15	24	14	0	0	480	32950
79	4721	274	Miner Helper	480	84.3	248	49	37	25	22	26	37	25	9	2	0	0	480	33950
80*	7845	MIH	Miner Helper	211	78.1	401	32	12	7	6	8	9	4	1	0	0	0	480	98034
81	4692	273	Miner Helper	480	69.8	439	13	4	6	9	6	1	0	1	1	0	0	480	00000
82	4734	273	Miner Helper	480	80.1	246	34	61	40	34	39	23	2	0	0	0	1	480	SCHST
83	4186	270	Operator	477	89.9	97	38	42	82	66	25	21	72	37	0	0	0	480	CC201
84	4449	271	Operator	480	93	154	37	13	12	13	40	69	65	72	5	0	0	480	CC201
85	7721	270	Hydro Air Truck	480	96.3	117	34	23	19	47	24	59	39	61	53	4	0	480	1SHAF
86	2855	270	Hydro Air Truck	480	82.9	174	49	36	26	134	15	20	17	9	0	0	0	480	CC204
			Mean	479.93	99.63	163.59	41.27	35.98	29.73	48.95	34.51	30.9	30.73	21	23.02	12.61	7.71	480	
			Std. Dev.	0.4	Log aver.	80.97	19.15	19.06	18.71	44.38	25.15	16.87	26.83	21.96	31.14	18.62	21.73	480	
87	7720	281	Longhole Driller	480	99.3	52	17	9	17	14	13	74	84	140	54	6	0	480	32950
			Mean	480	99.3	52	17	9	17	14	13	74	84	140	54	6	-	480	
			Std. Dev.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	480	

* Not estimated

Cont. overleaf

Table 1 - Cont.

No.	User Code	Job Code	Operation	Time (min)	L_{OSHA} (dBA)	Frequency Distribution (min/dBA)												Σ Time (min)	Note
						60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100-104	105-109	110-114	115-119		
88	7870	260	Diamond Driller	480	96.7	82	46	24	18	36	59	88	47	31	25	22	2	480	CC202
89	4126	261	Diamond Driller	480	99.9	85	32	38	21	31	56	81	52	22	21	17	24	480	CC202
90	0850	261	Diamond Driller	480	97.7	62	28	28	10	22	139	56	35	21	32	24	3	480	CC210
91	0850	261	Diamond Driller	480	91.7	93	50	36	22	23	114	72	37	14	12	7	0	480	CC231
			Mean	480	97.37 ▲	80.5	39	31.5	17.75	28	97	74.25	42.75	22	22.5	17.5	7.25	480	
			Std. Dev.	-	Log aver	13.18	10.65	6.61	5.44	6.68	49.19	13.82	8.1	6.98	8.35	7.59	11.24	480	
92*	7960	010	Giraffe Operator	246	85.2	361	25	11	9	6	12	34	17	5	0	0	0	480	20065
93	4483	272	Giraffe Operator	480	93.8	91	11	7	10	38	48	83	142	45	5	0	0	480	20065
94	4753	213	E.B.L. Truck Op.	480	92.6	130	36	29	39	38	47	41	31	81	8	0	0	480	00307
95	4362	TEL	Teledyne Op.	480	93.1	57	24	25	28	34	50	118	124	13	1	6	0	480	00307
96	4560	273	Teledyne Op.	480	98.2	139	20	6	15	24	33	51	43	57	85	7	0	480	00210
97	7762	271	Teledyne Op.	480	101.5	34	12	12	6	9	57	93	61	113	43	34	6	480	00210
			Mean	480	97.32 ▲	90.2	20.6	15.8	19.6	28.6	47	77.2	80.2	61.8	28.4	9.4	1.2	480	
			Std. Dev.	-	Log aver	45.35	10.19	10.57	13.65	12.36	8.75	31.4	49.78	37.67	35.82	14.14	2.68	480	
98	1880	281	Stope Instructor	480	102.3	52	24	26	22	4	61	79	93	25	16	62	16	480	45050
99	4735	296	Stope Trainee	480	100	77	19	20	48	33	62	54	26	39	57	45	0	480	SCHST
100	4763	296	Stope Trainee	480	100.1	79	28	64	52	64	23	20	24	44	30	44	8	480	SCHST
101	4718	296	Stope Trainee	480	102.8	50	36	49	39	62	28	36	35	52	35	26	32	480	SCHST
102	4719	296	Stope Trainee	480	92.4	32	32	28	16	8	124	114	88	37	1	0	0	480	SCHST
103	4729	296	Stope Trainee	480	96.2	137	56	39	37	39	17	18	41	39	38	19	0	480	SCHST
			Mean	480	100.15 ▲	71.17	32.5	37.67	35.67	35	52.50	53.5	51.17	39.33	29.5	32.67	9.33	480	
			Std. Dev.	-	Log aver	36.82	12.96	16.52	14.18	25.61	40.01	37.42	31.12	8.87	19.25	22.09	12.82	480.01	
104	9612	SHI	Shift Boss	480	88.4	196	49	32	31	53	27	34	26	22	9	1	0	480	CC201
105	9608	SHB	Shift Boss	480	86.4	240	28	34	18	16	39	65	30	6	3	1	0	480	CC203
106	9575	SHB	Shift Boss	480	87.5	46	49	70	57	45	49	121	42	0	1	0	0	480	CC205
107	9636	SHB	Shift Boss	480	88.8	153	90	58	29	24	38	37	29	15	1	5	1	480	CC210
108	9630	SHB	Shift Boss	480	87.2	241	49	17	23	19	31	41	36	20	3	0	0	480	CC210
109	9508	SHB	Shift Boss	478	81.5	196	72	61	39	34	22	38	17	1	0	0	0	480	00307
110	9574	SHB	Shift Boss	480	77.5	312	45	41	26	15	18	8	14	1	0	0	0	480	00308
111	9590	SHI	Shift Boss	480	79.5	189	50	69	46	59	34	28	4	1	0	0	0	480	00000
112	9638	SHF	Shifter	480	86.3	86	30	34	30	25	174	84	16	1	0	0	0	480	2SHAF
			Mean	479.7	86.12 ▲	184.33	51.33	46.22	33.22	32.22	48	50.67	23.78	7.44	1.89	0.78	0.11	480	
			Std. Dev.	0.67	Log aver	81.16	19.3	18.79	12.16	16.47	48.17	34.12	11.97	9.02	2.93	1.64	0.33	479.99	
113	9637	FOR	Foreman	480	88.5	197	31	18	16	44	32	52	73	17	0	0	0	480	2051L
114	9614	FOR	Foreman	480	85	210	58	31	31	29	42	42	27	8	2	0	0	480	00448
			Mean	480	87.09 ▲	203.5	44.5	24.5	23.5	36.5	37	47	50	12.5	1	-	-	480	
			Std. Dev.	-	Log aver	9.19	19.09	9.19	10.61	10.61	7.07	7.07	32.53	6.36	1.41	-	-	480	

* Not estimated

this noise was created during the set-up time and while moving the rig.

2. 95-105 dBA has a major influence on the noise exposure index. This noise corresponds to the drilling time.
3. >105 dBA, over the OSHA permissible level, has also great influence on noise exposure index because this level has 25 minute duration time. The OSHA places more emphasis upon the peak noises, while different laws based upon 5 decibels exchange rate between sound pressure level and duration are used to obtain the equivalent exposure.

The average time of useful work was 4 hours, 50 minutes set-up and drive time of the rig, and 3 hours and 10 minutes drilling time. In other Canadian mines, the average time of useful work is 3 hours and 51 minutes. Although the Canadian average for useful work is realized at Denison Mine, new effort should be made to increase productivity. At the same time it is necessary to demand the mandatory use of ear plugs and ear muffs due to high noise levels, also at the same time making it mandatory to use plugs and ear muffs because noise is too high. From the statistical point of view in nine cases jumbo operators had continual work in the morning and afternoon, in seven cases jumbo operators drilled only in the morning, and in the afternoon he moved the jumbo. In one case he drilled for only a short time before and after lunch. It is quite evident that all organization on the jumbo drilling machine needs improvement.

ROOF BOLTER OPERATORS

Twenty-one tests were performed on the roof bolter operators (Table 1 and Appendices 1, 22 to 42). Tests showed very good organization of work, high discipline and a high level of responsibility. In one instance only a test was spoiled by the operator removing the dosimeter (Appendix 38). One

more measurement was lost because the worker left the job during the shift. The useful drilling work was three hours and thirty-eight minutes. However, useful work should include:

1. Wash, scale and muck out round.
2. Sound the back and re-check scaling. Complete cleaning of boot legs and check for missing holes.
3. Install rockbolts on a 1.3 x 1.3 m pattern: bolts must be installed after hole is drilled. Additional rock bolts and/or straps may be required as ground conditions warrant, etc.

All work can be followed from time history graphs. Tests show the following:

- noise exposure index is not too high because roof bolting is complex work, where drilling is only one part of the useful work (see Table 1 and Appendix 1, 22 to 42);
- drilling is not continuous work. Shorter or longer breaks are often seen; and
- only ear muffs with a strap are used in this category of job because very often head movement causes hat discomfort. In this case the efficiency of ear muffs is very low. It should be mandatory for ear plugs and ear muffs to be used with the strap.

Analyses of NEI from Canadian mines shows constant problems and opinions. This consistency points to a basic uniformity of the work.

JACKLEG MINER (DRILLER)

Forty-four measurements were performed on the NEI (Appendix 1, 43 to 86). Three measurements were rejected because of partial shift measurements. In the test LOSHA is very variable, from 69.8 dBA to 109.1 dBA, and at the

same time the NEI is variable. The noise times higher than 90 dBA were entered into the computer and the average result is 2 hours and 6 minutes. Similar measurements at Denison Mine were performed on February 14th, 1973 (1). The total time over 90 dBA level was 1 hour and 56 minutes. Both of them are very close. Noise Branch, Division of Health Technology, Pittsburgh, Technical Support Center, Mine Safety and Health Administration, U.S. Department of Labor did 64,000 measurements, and the operating time per shift was 2 hours (2). This is an irrefutable argument that profiling dosimeters are doing well.

Denison Mine has the following job classifications for miners:

Code	Classification
270	"A" Miner
271	General Miner - Grade 1
272	General Miner - Grade 2
273	Miner Helper - Grade 1
274	Miner Helper - Grade 2

Tests with noise dosimeters show poor agreement between job classifications and job procedures. Conventional mining steps are underlined in their proper order. All steps and key points must be followed to achieve maximum efficiency and avoid downgrading incidents (Table 2). Tests from Appendices 43 to 86 should be very instructive for establishing a good standard of job procedures (Example in Appendix 2).

LONG HOLE DRILLER

Only one measurement was taken (Appendix 87). L_{OSHA} was 99.3 dBA. A similar test was performed on 12th February, 1973 with the sound level meter and stopwatch. Both of them have equal time of noise over 90 dBA, but different NEI.

Measurement	12/02/1973	25/09/1979
Time (h) (>90 dBA)	5.9555	5.9666
N.E.I.	18.43	3.64

Large numbers of tests will produce the true results and show the reason for the large difference in these readings.

DIAMOND DRILLER

From four measurements of NEI on diamond drillers it may be seen that three tests (Appendix 1, 88 to 90) are very close and show a range of values of L_{OSHA} = 96.7 to 99.9 dBA. The fourth test shows a lower value, probably resulting from a deeper drill hole.

The noise level from drilling decreases rapidly as the depth of the drill hole increases, and drilling noise becomes uniform because there is not much retracting and inserting of rods. From time history diagrams a distinct work period cannot be identified by the type of work done such as, remove core, place core, place diamond bit, insert rods, etc. This may be expected as these work periods are of less than 1 minute duration. This is an instance where with current technology the profiling dosimeter cannot be used to produce standard job procedures or time studies. The useful work period measured was 3.1 hours which is a good average for diamond drilling equipment.

GIRAFFE AND TELEDYNE OPERATORS

Six measurements were completed (Appendices 92 to 97). Test No. 92 was rejected as it was stopped after only 4 hours. The results show great differences in value as the standard deviation is high. From the time history graphs it is seen that the work is intensive and dependent on the existing

requirements. Useful work time was very high, 4.3 hours, with noise in excess of 90 dBA.

STOPE TRAINEES

This was a short but very interesting test for two reasons:

1. The results show a great similarity to roof bolters and jackleg miners;
2. They confirm the similarity of the trainees at Denison Mine.

The time history chart displays the effort of each participant through generated noise. Each tries with more or less effort to drill continuously (Appendix 1, 99 to 103). The stope instructor shows good effort to be with the trainees (see time history Appendix 98). The L_{OSHA} was slightly higher than measured for similar work categories and the useful work time was long.

Operation	L_{OSHA} (dBA)	Time (h) >90 dBA
Roof bolter operators	99.35	3.64
Jackleg miner	99.63	2.10
Stope trainee	100.15	3.59

The NEI for stope trainees was similar to roof bolter operators. This is an instance where an instructor and his students may be controlled. Further results produced are accurate and independent of subjective thought.

SHIFT BOSS AND FOREMEN

Supervision of the work force has always been required for the following reasons:

- immediate direction of work efforts
- control of safety in the work place
- leadership
- assuming of responsibility.

In each case it is expected that the shift boss or foremen be with the workers. The single tour of the work place is insufficient as this becomes a routine courtesy call. The tests show that on the basis of time spent in the noisiest locations, shift bosses spend 1.4 hours and foremen 1.84 hours respectively with the workers during work hours (Table 1). In each case the actual time spent in the work place is longer as the worker stops working to receive advice and direction. It is interesting to note that foremen spend almost 30 minutes more with the workers than do the shift bosses.

The L_{OSHA} was low in both cases, 86 to 87 dBA. Shift bosses and foremen are not exposed to excessive noise and in each case the NEI was below one (Appendix 1, 104 to 114).

MANAGEMENT REQUIREMENTS

In every case management would not be satisfied to have the job categories, such as operators of drilling equipment, supervisory personnel, etc., shown by time history graphs as in this report. Five minute averaging is often too long and does not permit the identification of many routine work occurrences. Because of this, Elliot Lake Laboratories, in cooperation with instrument manufacturers, has made it possible for the time history diagram to be produced on demand on a 1 to 5 minute interval. Less than 1 minute cannot be achieved as this is the limit of the profiling dosimeter. To achieve an interval of 0.5 or 0.25 minutes additional equipment added to the instrument would make it unsuited for wearing in the work place (with present technology).

CONCLUSIONS

Drilling equipment is regarded as the most dangerous noise source affecting workers hearing. The problems, methods and analysis of NEI measurements

with a new generation of noise dosimeters has been discussed. Analysis of the results has shown that jumbo operators are exposed to the greatest noise L_{OSHA} = 103.8 dBA. Roof bolters, jackleg miners, long hole drillers and stope trainees are exposed to noise $L_{OSHA} \simeq$ 100 dBA. Diamond drillers, giraffe and teledyne operators are exposed to somewhat less noise $L_{OSHA} \simeq$ 97 dBA. Shift bosses and foremen are below the dangerous level and noise is L_{OSHA} = 88 dBA.

The results are in agreement with previous measurements in other locations and with laboratory results.

A new effort has been made to bring more definition to the measurements and deliver more information to management on the improvement of safety and productivity in mines.

REFERENCES

1. Savich, M., "Noise measurements in Denison Mines"; Division Report 73-122; CANMET, Energy, Mines and Resources Canada; 1973.

2. Giardino, D.A. and Marraccini, L.C., "Noise in the mining industry - an overview"; Proc NOISE-CON 79, Machinery Noise Control, Purdue University, West Lafayette, Indiana, 30th April to 2nd May, 1979.

APPENDIX 1

MEASUREMENT OF NOISE EXPOSURE INDEX ON DRILLING OPERATIONS WITH FULL INFORMATION: L_{OSHA} CURRENT AND CUMULATIVE; PERCENT DOSE (CURRENT AND CUMULATIVE); ARITHMETIC MEAN; STANDARD DEVIATION; VARIANCE; AMPLITUDE DISTRIBUTION (GRAPHICAL AND NUMERICAL); AND TIME HISTORY (GRAPHICAL).

1

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1

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     216    115200  480
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 101 100  99 100  99  98 100  96  98  98  87  84  87  97  97  98
  87  74  76  75  62  60  60  60  63  92  90 102 101  96 103 103
 104 101 103 106 104 102 105 104 105 103 106 105 105 102 106 102
 101 102 102 101 101 101 104 103 101  92 105 104 106 102 106 106
 105 102 102 106 106 103 105 107 105 104 103 103 103  94  94  94
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 100 101  98 102 100 101 100 102  97  98 101  94  99  97  81  81
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 102 100 100  99 100 102 102  99 102 100  99  95 101  97 102  98
  87  85  86  87 100  97  97 101  96  92  96  84  86  86  86  85
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 105 105 103 105 104 105 104 104 105 104 105 103 107 104 106  98
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 103 106 106 105 105 106 106 107 105 101 106 107 106 104 101 104
 107 106 104 106 106 105 106 106 104 105 106 106 105 108 106 101
 108 106 105 104 108 106 103 105 107 105 100 108 106 104 104 103
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ENTER USER CODE (4 CHARS) : 4388
ENTER JOB CODE (3 CHARS) : 281

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LOGGER : DB-3C1/26
SERIAL NUMBER : 1212
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 14 SEPT 1979
SITE CODE : CC201
JOB CODE : 281
USER CODE : 4388
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:54

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
1004 NOISE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOGMA		LOGSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	91.4	91.4	15.105	15.11
2	102.4	98.8	69.535	84.64
3	93.7	97.5	20.819	105.46
4	93.0	96.6	18.970	124.43
5	95.6	96.4	27.219	151.65
6	104.1	98.4	88.481	240.13
7	105.1	99.8	100.366	341.00
8	91.8	99.2	15.965	356.96

MIN. COMP. = 60 DB
MAX. COMP. = 108 DB
ARITHMETIC MEAN = 92 DB
STD. DEVIATION = 14 DB
VARIANCE = 196 DB

AMPLITUDE DISTRIBUTION

(1) (1)

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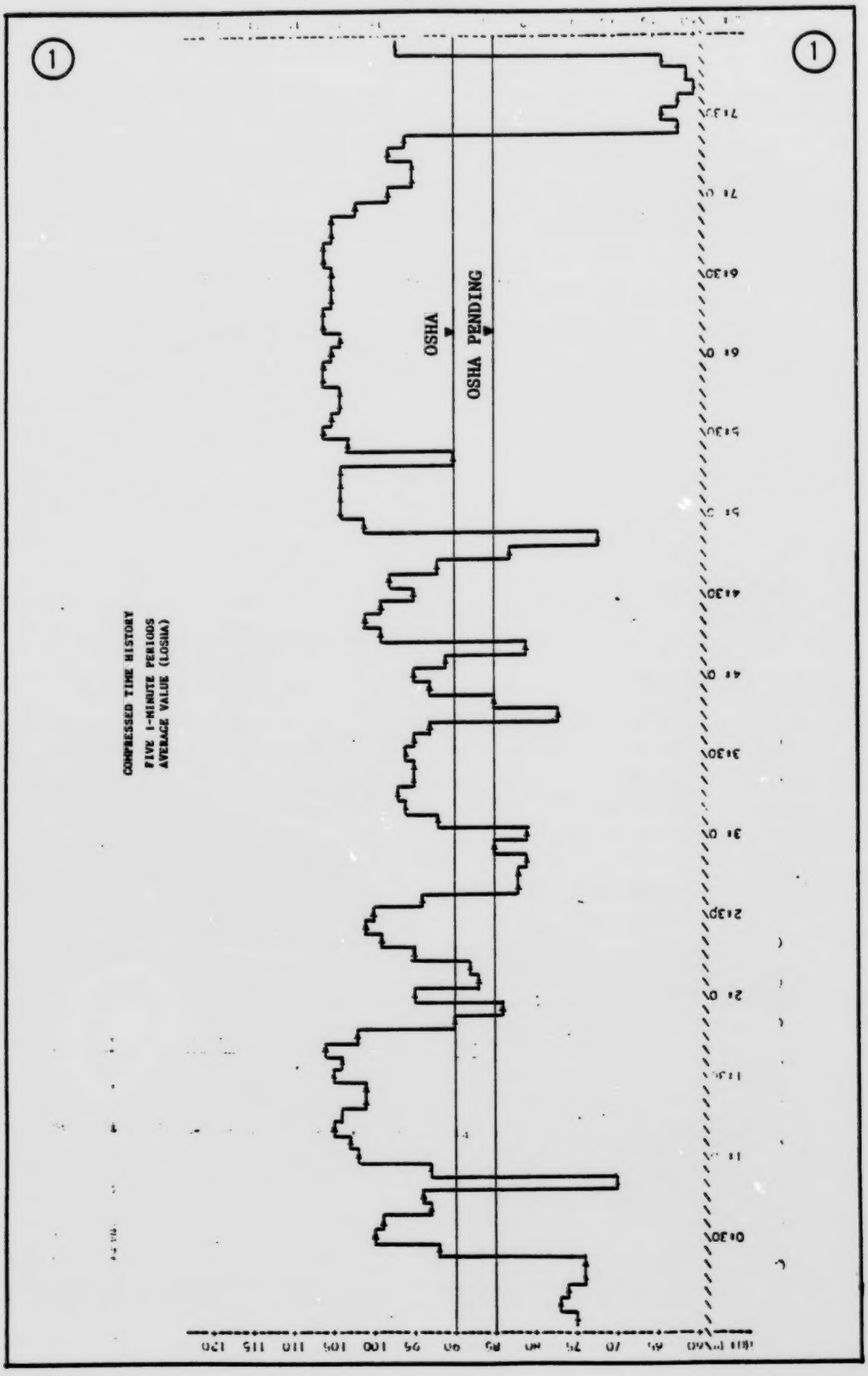
10	2.1	70 TO 74
27	5.6	75 TO 79
45	9.4	80 TO 84
29	6.0	85 TO 89
46	9.6	90 TO 94
70	14.6	95 TO 99
113	23.5	100 TO 104
89	18.5	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480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COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
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2:30
3:30
4:30
6:30
7:30

2

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 112 111 112 114 114 114 114 113 113 114 114 114 112 112 112 114
 114 114 114 113 112 113 112 100  99  99 100 101 101 106 112 112
 112 112 112  96  97 115 115 115 115 115 116 115 116 116 116 116
 114 115 116 116 116 116 116 116 115 116 115 113 113 114 114 114
 114 114 113 115 115 115 115 116 116 116 107 110 113 111  97  91
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 115 114 115 116 115 115 115 115 115 114 113 113 113 111 113 112
 111 109 108  94 104  90 107 112 112 107 105 105 104 112 112 112
 112 112 112 112 110 110 112 112 112 112 109 103 106 112 112 112
 112 112 108 103 111  94  87  90  90  90  89  89  89  88  66  60
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  94  92  89  87  87  87  88  71  67  70  83  84  84  83  78  78
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ENTER USER CODE (4 CHARS) : 2809
 ENTER JOB CODE (3 CHARS) : 080
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SERIAL NUMBER : 1216                            JOB CODE : [illegible]
      BASELINE : 60 DB                         USER CODE : 2809
DYNAMIC RANGE : 54 DB                         THRESHOLD : [illegible]
SAMPLING RATE :  4/SEC                    TOTAL SAMPLES = 115200
TEST DURATION =  [illegible]                   STANDBY TIME =  [illegible]
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TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOGMA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	89.2	89.2	11.165	11.16
2	111.5	106.0	245.648	256.81
3	112.5	109.4	293.263	550.08
4	111.5	110.0	247.903	797.98
5	94.0	108.6	21.316	819.59
6	88.2	107.3	9.305	829.40
7	85.6	106.3	10.250	839.65
8	89.3	105.4	11.281	850.93

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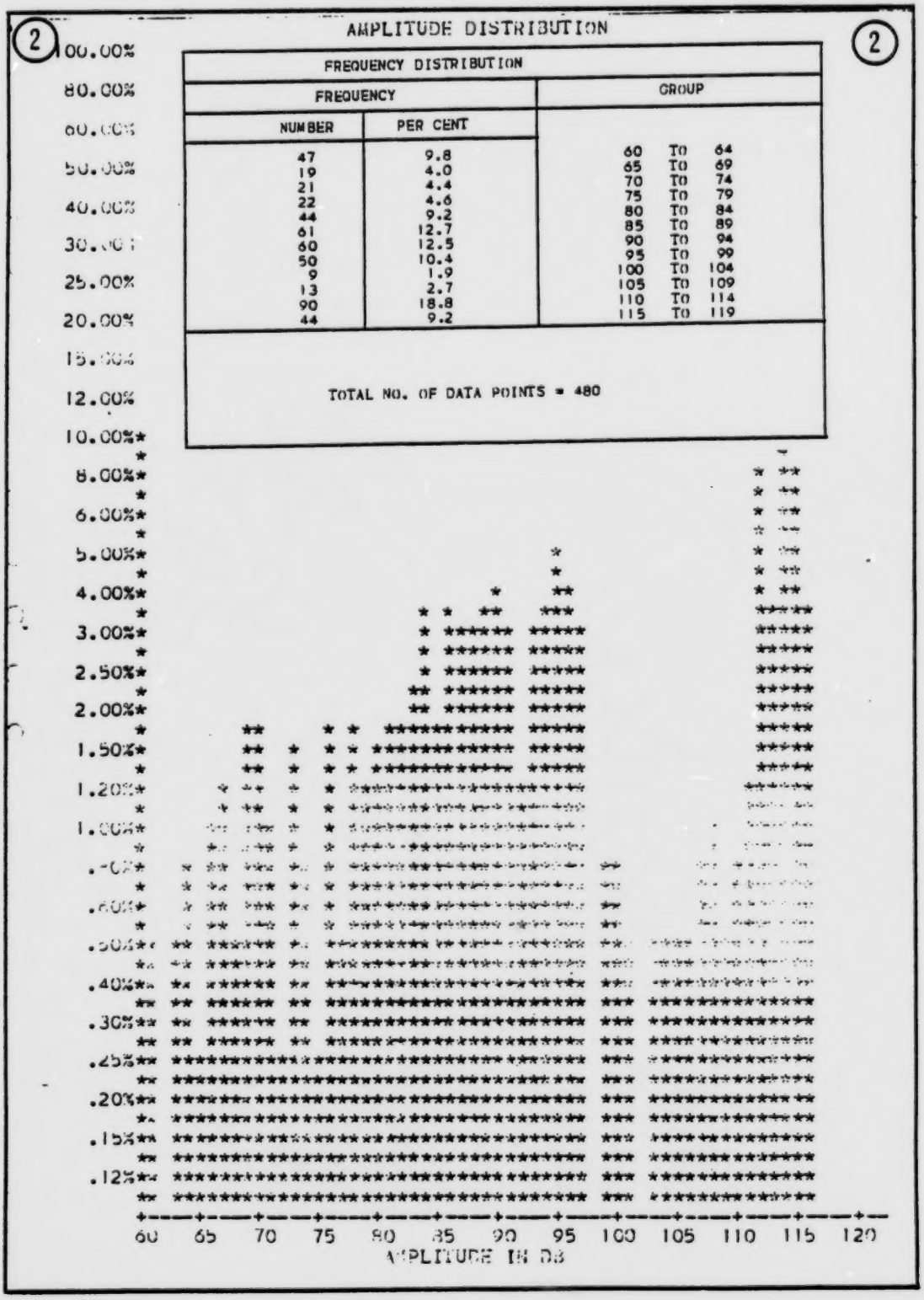
ARITHMETIC MEAN = 91 DB
STD. DEVIATION = 17 DB
VARIANCE =289 DB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AMPLITUDE DISTRIBUTION
2
FREQUENCY DISTRIBUTION
FREQUENCY
NUMBER
PER CENT
GROUP
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19 4.0 65 TO 69
21 4.4 70 TO 74
22 4.6 75 TO 79
44 9.2 80 TO 84
61 12.7 85 TO 89
60 12.5 90 TO 94
50 10.4 95 TO 99
9 1.9 100 TO 104
13 2.7 105 TO 109
90 18.8 110 TO 114
44 9.2 115 TO 119
TOTAL NO. OF DATA POINTS = 480
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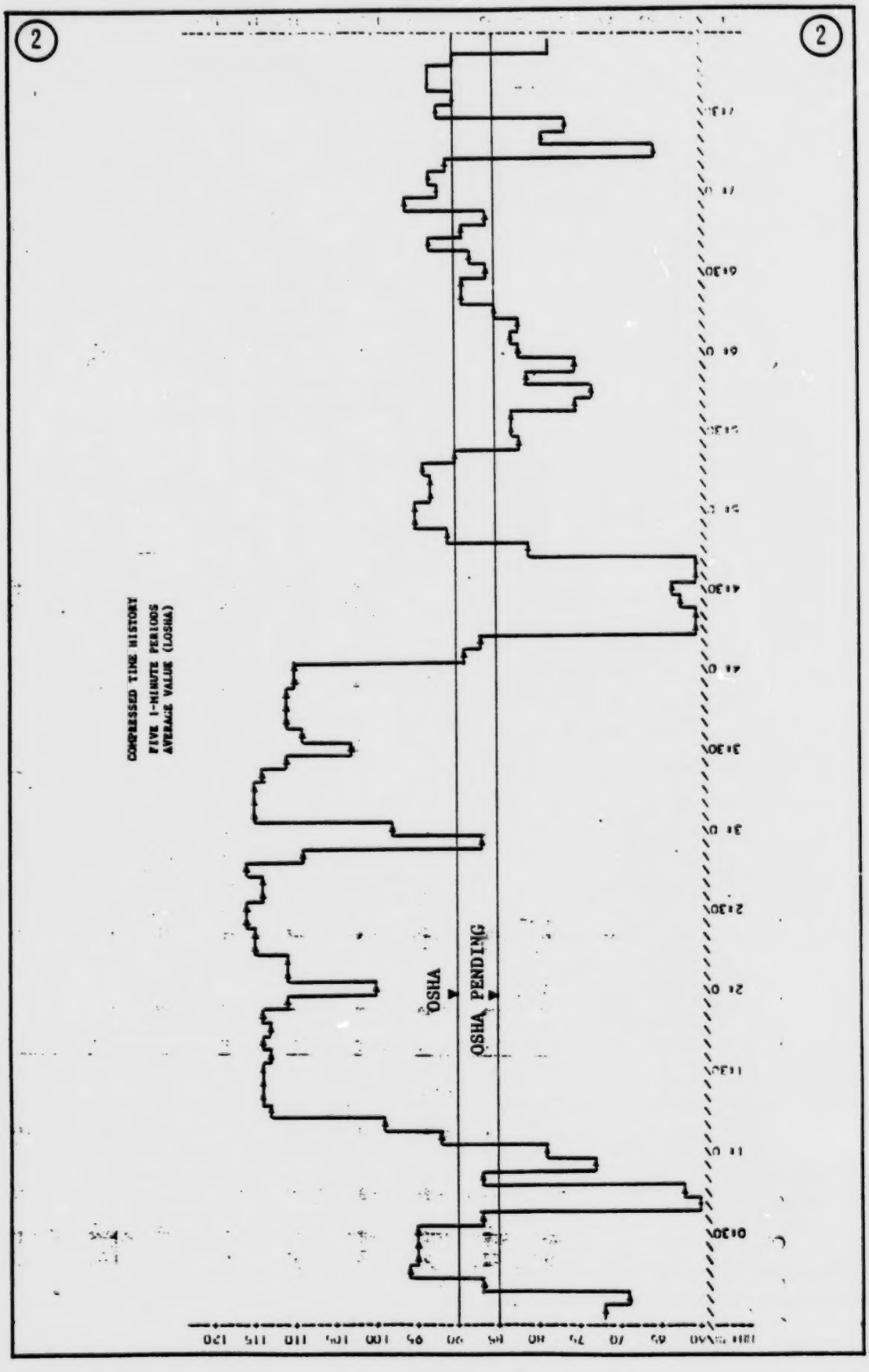
AMPLITUDE IN DB


COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
2
2

3 3

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     87    115200  480
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  97  97  97  97  96  93  96  96  95  96  96  96  97  98  96  84
  94  92  86  81  60  62  60  60  60  60  60  60  61  60  61  85
  94  89  70  83  77  73  72  77  75  74  68  66  70  70  95  96
  92  88  84  87  89  94  95 106 110 112 113 115 113 113 113 114
 114 114 114 113 115 114 113 114 115 116 116 113 113 113 113 111
 112 113 113 113 115 113 113 113 114 113 111 111 112 113 113 114
 111 112 112 112 107  97  95  97  97  98  97 107 110 110 110 113
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 116 116 114 116 115 115 115 115 115 112 113 113 114 113 113 113
 114 115 114 114 115 116 115 116 107 107 113 111 [illegible] 94 [illegible] [illegible]
  91  89  92  92  89  87 112 114 115 115 115 116 115 115 115 115
 116 115 115 115 115 115 114 113 113 112 112 110 113 111 110 10[illegible]
 104  93 104  93 109 111 111 106 103 100 106 111 111 111 111 111
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ENTER USER CODE (4 CHARS) : 5146

 ENTER JOB CODE (3 CHARS) : 281


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SERIAL NUMBER : 1225                       JOB CODE : 281
      BASELINE : 60 DB                     USER CODE : 5146
DYNAMIC RANGE : 64 DB                     THRESHOLD : [illegible]
SAMPLING RATE : 4/SEC                 TOTAL SAMPLES = 1152[illegible]
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          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                      NOISE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      89.9      89.9         12.244     12.24
   2     111.2     10[illegible].5       236.636    24[illegible].0[illegible]
   3     112.3     10[illegible].0       275.114    524.19
   4     111.2     10[illegible].6       237.362    761.58
   5      89.8     108.1         12.171    773.75
   6      90.6     107.0         13.280    787.73
   7      90.7     106.0         13.769    801.50
   8      88.5     105.1         10.092    811.59
MIN. COMP. =  60 DB              MAX. COMP. = 116 DB
ARITHMETIC MEAN =  91 DB
STD. DEVIATION =  17 DB
VARIANCE =289 DB
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3 AMPLITUDE DISTRIBUTION 3

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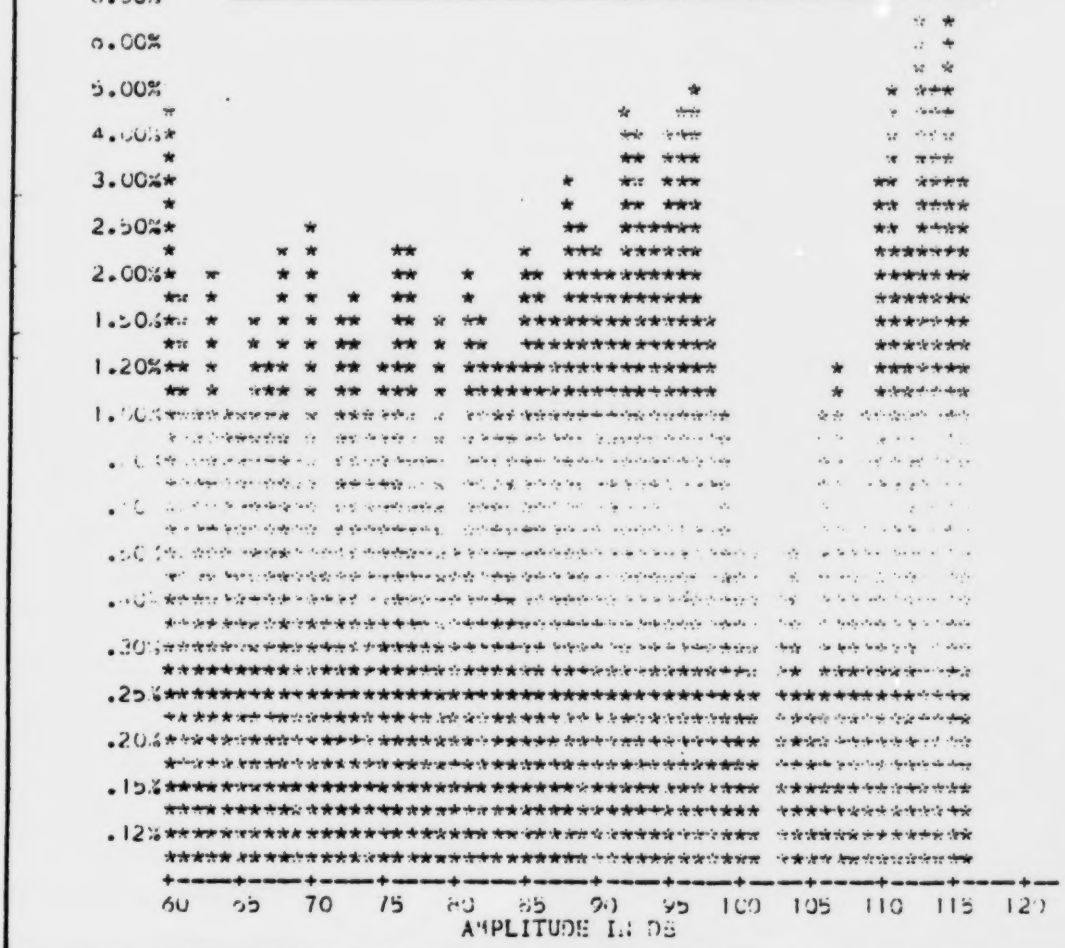
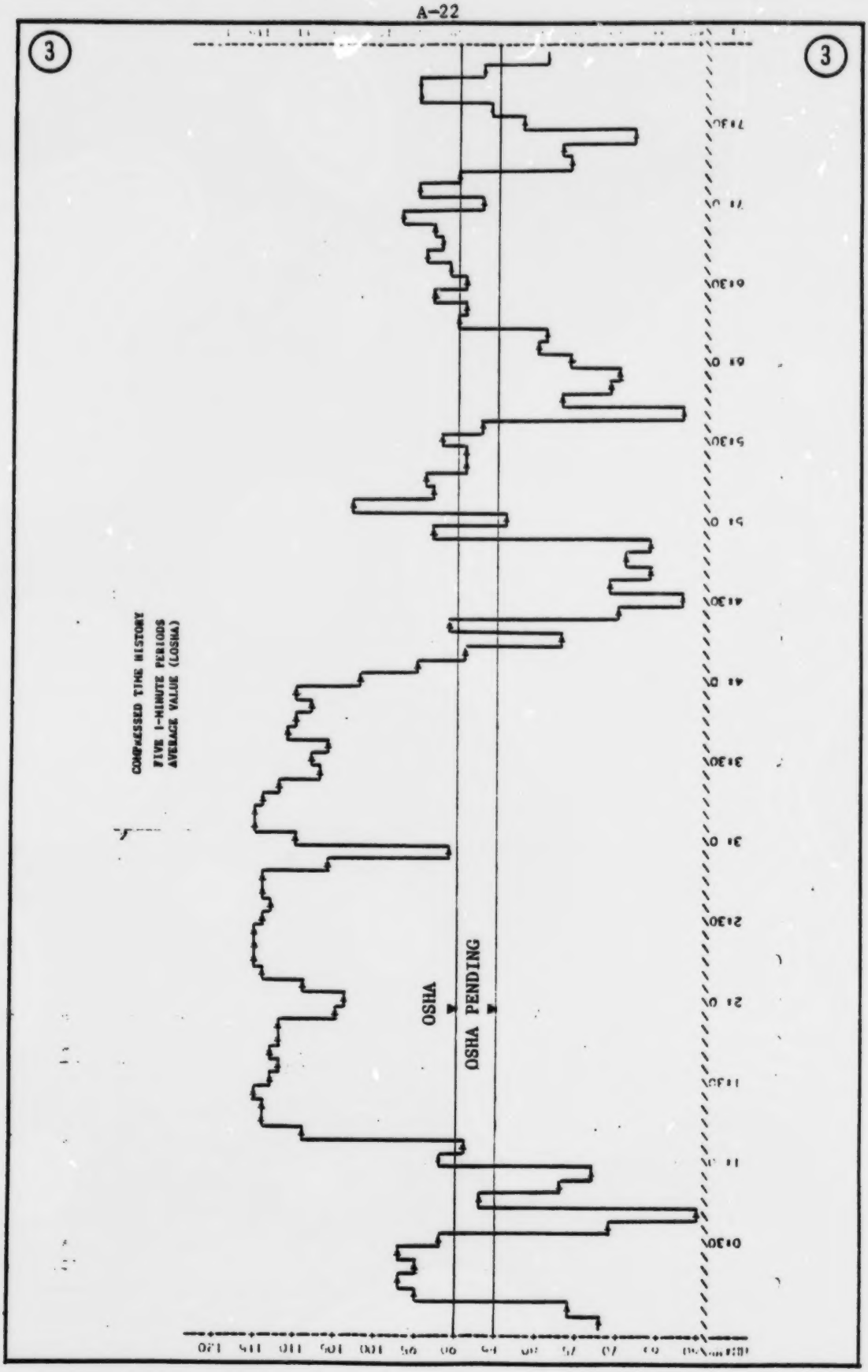
29	6.0	70 To 74
32	6.7	75 To 79
26	5.4	80 To 84
45	9.4	85 To 89
60	12.5	90 To 94
64	13.3	95 To 99
8	1.7	100 To 104
17	3.5	105 To 109
91	19.0	110 To 114
40	8.3	115 To 119

TOTAL NO. OF DATA POINTS = 480



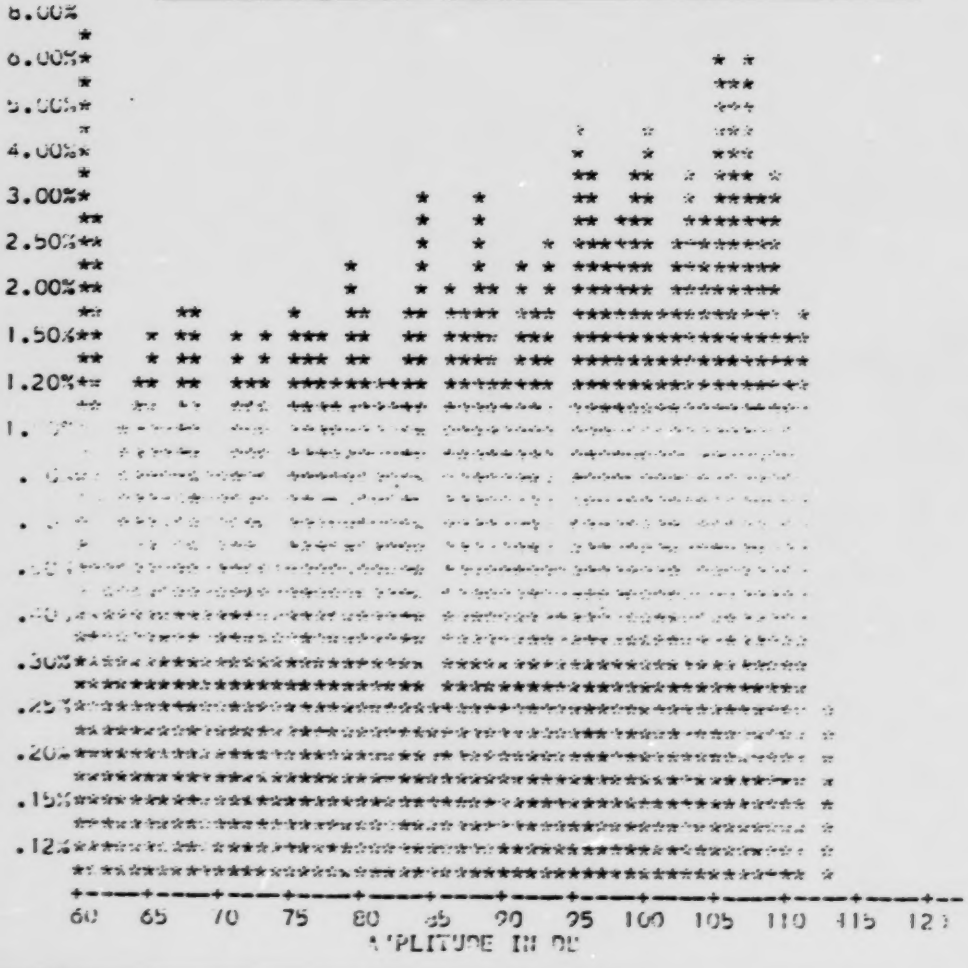

3
3
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

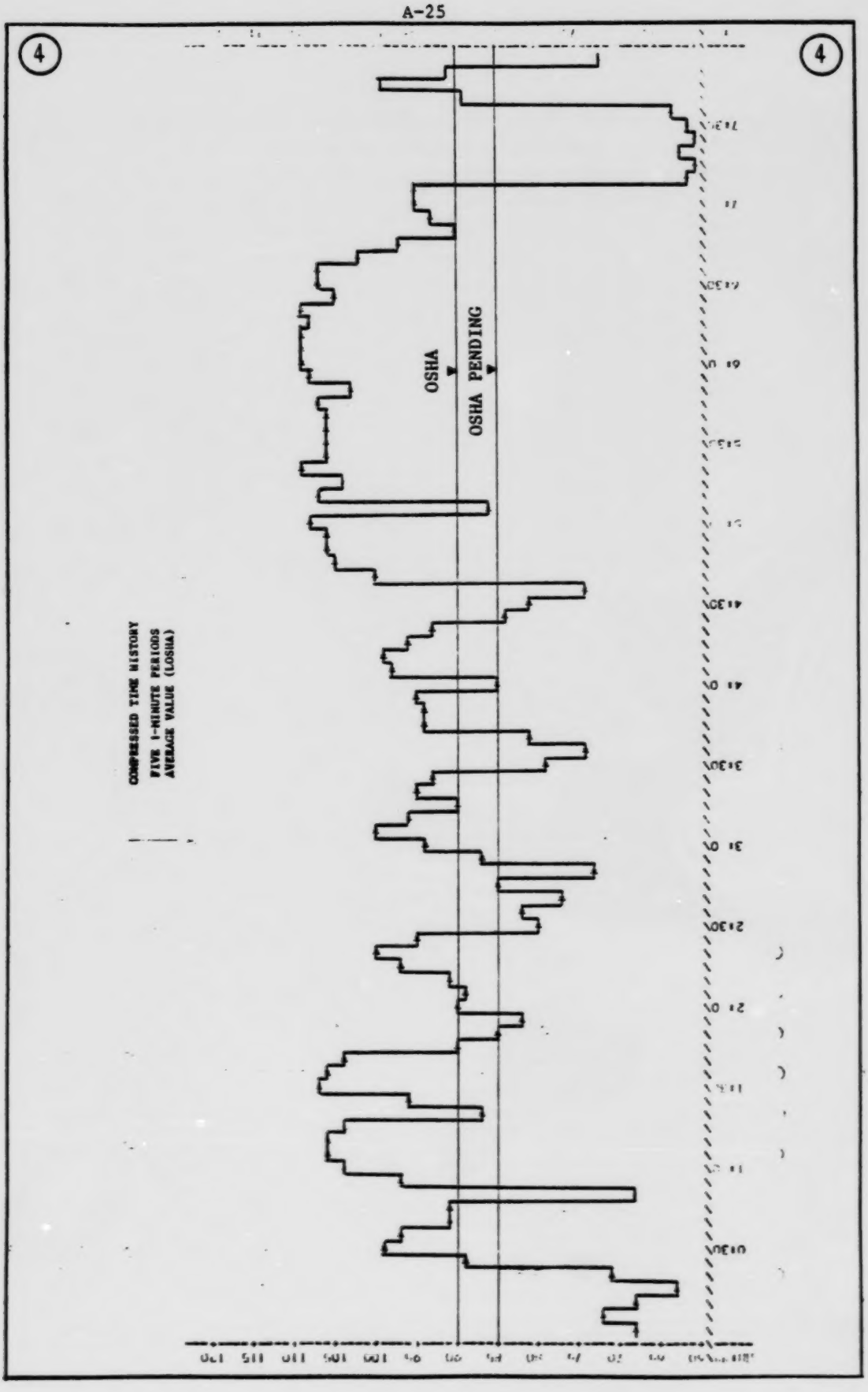
(4) (4)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1213   60   64    4    1
   1000     115200  480
  68  67  71  71  62  70  76  71  68  74  73  64  73  61  61  60
  61  62  63  68  71  68  68  67  76  86  87  89  91  92  98 100
  99  98  99  98  97  99  96  96  96  86  82  85  95  95  96  86
  84  79  77  60  60  61  61  65  92  87 103 102  99 105 104 106
 102 105 107 104 103 104 106 107 105 [illegible] 106 106 102 103 102 100
  87  89  84  88  87  88  92  93  88 104 106 107 103 109 107 101
 102 103 108 107 103 107 105 105 101  93  82  75  89  95  95  84
  72  64  64  86  86  83  61  66  78  96  95  84  81  83  92  93
  89  84  76  77  97  95  91  [illegible]  95 100  99  96 100 100 100 100
  99  99  95  98  88  79  71  81  81  84  80  80  79  72  66  91
  72  65  75  77  83  82  91  88  80  78  79  63  67  76  70  64
  67  79  80  97  99  96  91  83  91  92  72 102 101 105 103  98
  95  71  81  75  84  82  95  96  89  91  95 100  93  97  97  91
  86  75  77  68  77  84  79  79  75  65  75  70  69  66  73  88
  84  84  97  89  96  98  75  93  94  93 100 100  95  98  72  86
  81  83  82  87  88  90  99  97 100  99 100  98  99  99  97 100
  96  98  90  88  90  88  96  92  96  90  84  76  84  78  69  80
  84  84  78  79  76  66  69  73  86  89 100 104 104 103 105 105
 106 105 106 107 103 107 105 105 106 105 107 107 108 104 109 107
 109  96  83  74  65  80 102 106 109 109 107 100 107 103 104 106
 109 113 106 103 108 106 104 105 105 108 107 106 108 105 100 104
 107 104 105 107 107 105 105 107 106 106 105 107 111 102 105 107
 103  94 103 106 106 111 106 111 110 111 109 106 109 111 110 108
 105 111 109 107 108 110 110 109 108 108 105 110 111 109 106 109
 110 101 107 107 105 104 109 106 103 106 108 107 101 109 109 105
 103 103  95 101 105  99 102  95  92  87  83  77  91  95  93  93
  95  90  96  89  87  88  97  98  97 100 101  95  67  60  60  60
  60  63  63  60  60  60  60  61  67  60  60  60  [illegible]  60  60  60
  60  60  60  65  60  61  60  61  61  60  67  61  60  73  78  96
  95  93 102  98 100 101  99  93  88  80  65  60  60  68  73  79
$EOF


ENTER LOG DATE (DD/MM/YR) : 18/07/79
ENTER SITE CODE (5 CHARS) : CC201
ENTER USER CODE (4 CHARS) : 2901
 ENTER JOB CODE (3 CHARS) : 281


   DATA LOGGED :18 JULY 1979                DATA ANALYZED : 14 SEPT 1979
        LOGGER : [illegible]-301/26                  SITE CODE : CC201
SERIAL NUMBER : 1213                              JOB CODE : 281
      BASELINE : 60 DB                            USER CODE : 2901
DYNAMIC RANGE : 64 DB                            THRESHOLD : [illegible]
SAMPLING RATE : 4/SEC                        TOTAL SAMPLES = 115200
TEST DURATION = [illegible]                       STANDBY TIME = [illegible]

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = [illegible]
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES


TIME          LOGNA                          [illegible]
HOUR     CURRENT  CUMULATIVE        CURRENT  CUMULATIVE
   1       90.2      90.2          12.828      12.83
   2      102.0      [illegible]   66.111      [illegible]
   3       90.[illegible]  [illegible]   [illegible]  [illegible]
   4       93.1      [illegible]   19.13[illegible]  112.06
   5       98.9      96.5          42.879     154.94
   6      105.9      99.2         112.798     267.74
   7      105.9     100.6         112.720     380.46
   8       [illegible]8.7      99.8          10.497     390.95
MIN. COMP. = 60 DB                  MAX. COMP. = 113 DB
ARITHMETIC MEAN = [illegible]9 DB
STD. DEVIATION = 1[illegible] DB
VARIANCE =256 DB
```

4 AMPLITUDE DISTRIBUTION 4

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
49	10.2	60 TO 64
27	5.6	65 TO 69
22	4.6	70 TO 74
33	6.9	75 TO 79
37	7.7	80 TO 84
36	7.5	85 TO 89
33	6.9	90 TO 94
68	14.2	95 TO 99
61	12.7	100 TO 104
100	20.8	105 TO 109
14	2.9	110 TO 114
0	0.0	115 TO 119
TOTAL NO. OF DATA POINTS = 480		




4
4
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1226    60    64     4     1 .
      24      115200   480
 80  74  75  67  61  71  65  66  69  74  73  76  79  74  81  86
 91  91  97 101 101 101  92  90  93  93  99  98  97  98  98  97
 99  99  98  97  97  95  97  96  94  90  88  80  80  81  89  84
 73  72  85  92  90  92  90  75  83  80  89  84  75  74  73  76
 70  74  77  75  75  70  85  84  80  83  89  92  81  82  81  77
 92  92  93  92  92  92  91  91  90  91  93  91  89  84  82  91
 91  91  92  91  86  95  90  86  80  90  86  87  84  87  85  84
 84  72  64  83  74  91  92  91  98  95  99  98  90  98  98  99
 86  86  92  94  93  92  93  95  83  84  81  95  92  92  94  92
 88  95  94  95  94  90  93  99 101  97  96  95  75  84  82  91
 91  92  92  92  91  90  89  90  91  90  91  98  97  97  98  96
 82  85  89  84  87  91  83  86  96  93  87  88  80  81  81  79
 74  86  88  86  85  89  91  92  87  80  88  89  89  86  87  83
 86  92  93  92  92  84  80  80  80  85  80  82  82  80  98 104
104 104 101 108 102 106 104 104 101  95  93  98  91  82  70  74
 91  98 109 104 104 104 105 109 108 106 104 102  94  92  98 111
103 103 103 102 103 106 104 103 101  94  95  95  94  97 107 106
102 101 103 107 106 105 104 100  91  78  89  86  90  84  91 106
105 103 103 103 101 107 108 105 103 101  95 105 102 105  99  89
103 102 100  96  87  87  80  73  80  74  77  69  84  85  83  76
 83  83  89  89  88  73  87  81  78  86  87  88  85  87  87  85
 80  80  80  74  79  81 100  95  86  80  89  91  80  83  95  80
 88 107 104 102  99 106 109 103 101 105 103 101 101  88 100 107
104 104 102  98 108 107 103 104 100 105 104 105 105 103  98  95
 96  95  94  89  99 107 107 104 104 103 107 105 105 102 100  97
108 105 105 106  99  96  83 104 110 105 103 102 106 104 101  86
 83  85  88 103 103 106 107 108 107 106 102  87 104 105 107 104
103 106 107 109 105 102 107 104 103 101  88 101 102 101  99  92
 77  63  61  73  90  93  61  80  65  86  70  86  90  91  89  91
 90  95  97  97  96  99 101 102  99 100 100 100  94  82  83  90
.EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 19/07/79
ENTER SITE CODE (5 CHARS) : CC2C2
ENTER USER CODE (4 CHARS) : 4074
 ENTER JOB CODE (3 CHARS) : 231
```

```
    DATA LOGGED :19 JULY 1979
        LOGGER : DR-301/24
SERIAL NUMBER : 1226
      BASELINE : 0 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION =  [illegible]

DATA ANALYZED : 14 SEPT 1979
    SITE CODE : CC2C2
     JOB CODE : 231
    USER CODE : 4074
    THRESHOLD : [illegible]
TOTAL SAMPLES = 115200
 STANDBY TIME = [illegible]
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
100% DOSE = [illegible]
EXCHANGE (OR LEVEL) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

TIME ACCUM	LOG A CURRENT	LOG A CUMULATIVE	ANTILOG CURRENT	ANTILOG CUMULATIVE
1	91.7	91.7	15.881	15.88
2	[illegible]	90.3	10.131	24.01
3	93.6	91.4	20.629	46.62
4	94.0	92.3	21.796	68.42
5	102.9	96.0	74.702	143.02
6	94.7	95.8	24.121	167.14
7	102.6	97.3	73.159	240.30
8	100.2	97.7	51.491	291.99

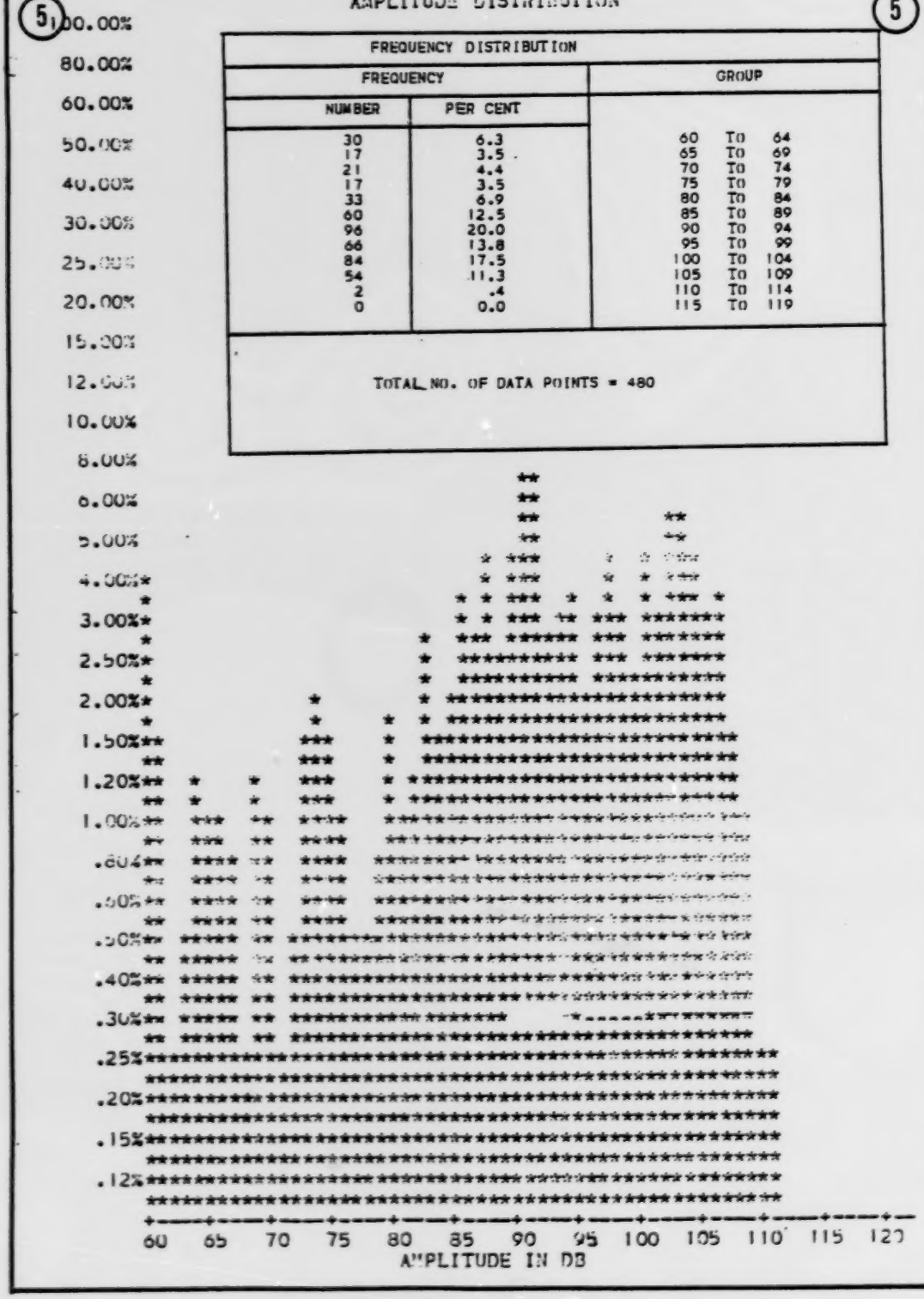
MIN. COMP. = 40 DB MAX. COMP. = 111 DB
ARITHMETIC MEAN = 90 DB
STD. DEVIATION = 13 DB
VARIANCE =169 DB

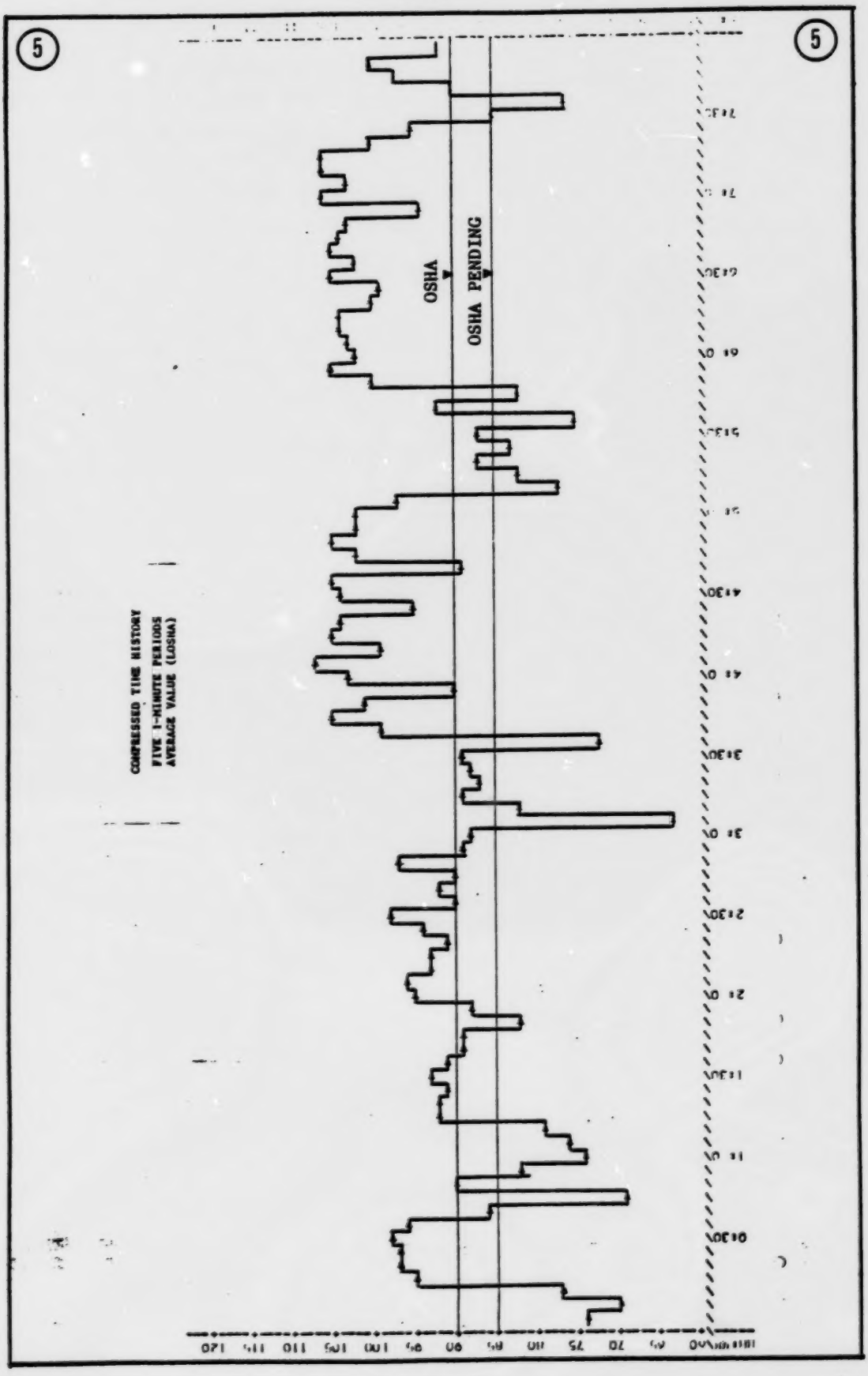
AMPLITUDE DISTRIBUTION

5 5

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
30	6.3	60 To 64
17	3.5	65 To 69
21	4.4	70 To 74
17	3.5	75 To 79
33	6.9	80 To 84
60	12.5	85 To 89
96	20.0	90 To 94
66	13.8	95 To 99
84	17.5	100 To 104
54	11.3	105 To 109
2	.4	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480

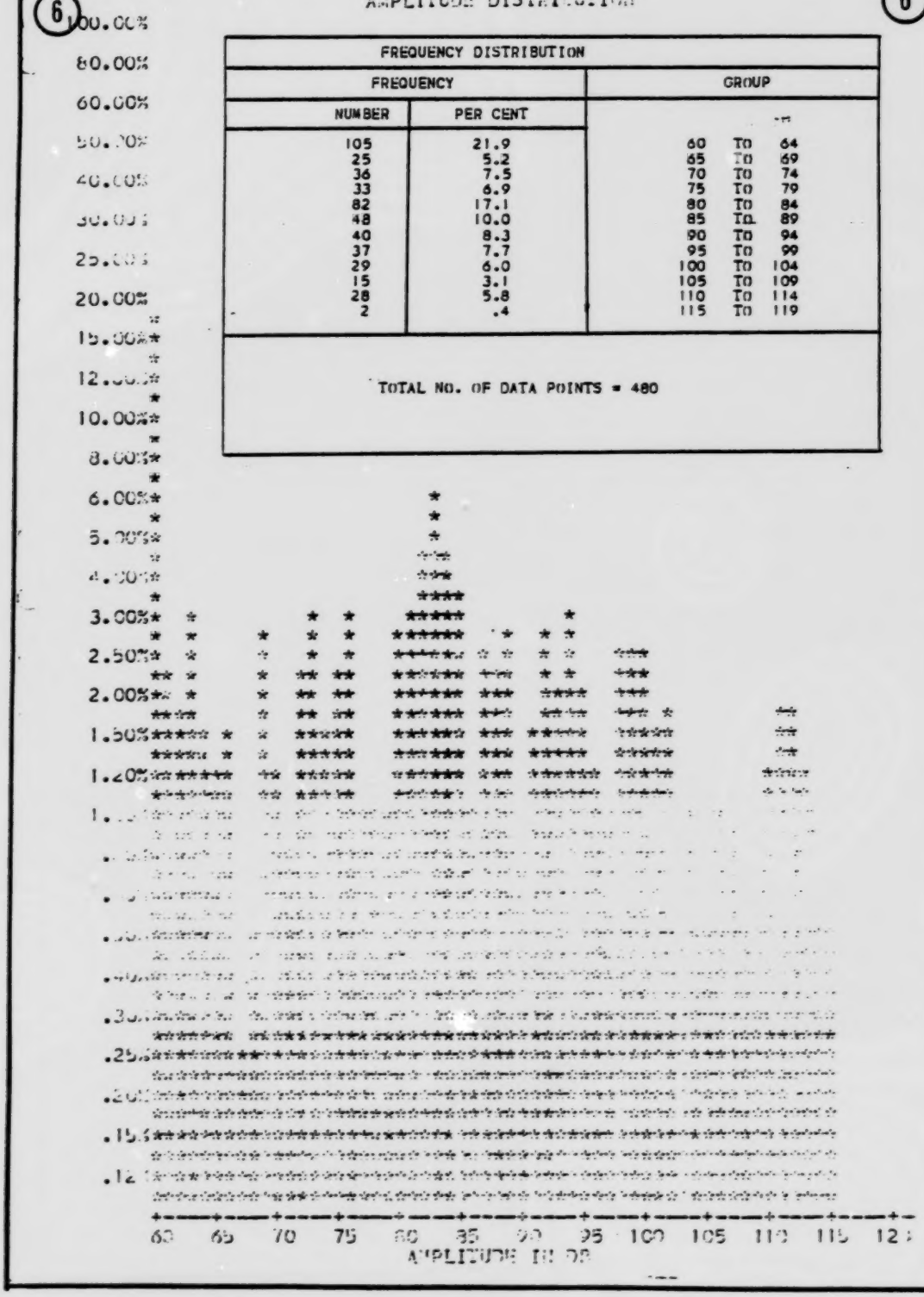


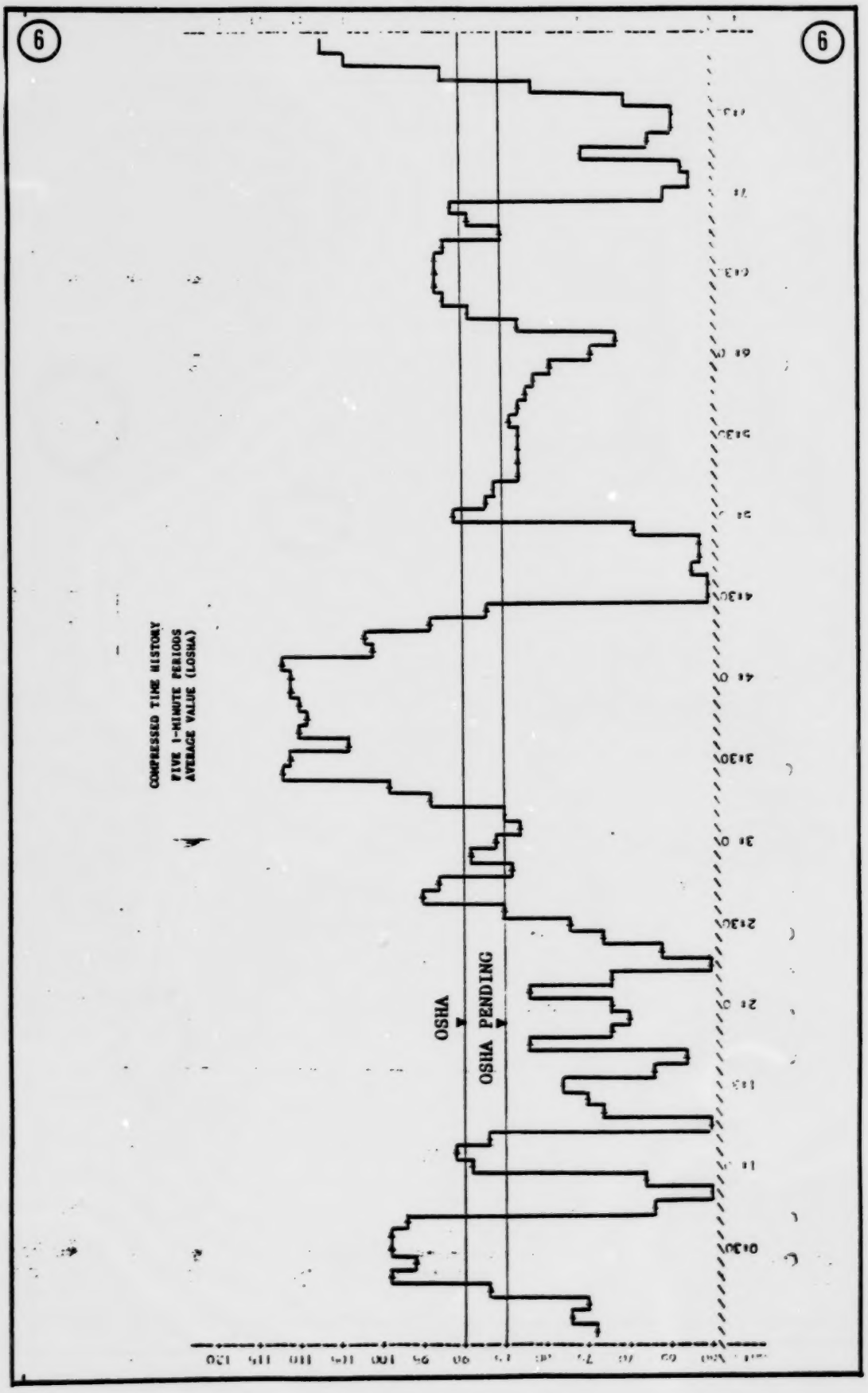

5
5
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1219    60    64     4     1
      55      115200   480
 69  66  74  75  80  74  77  80  73  77  72  73  63  76  79  79
 77  69  84  97 100  99  99  99 100 100  94  94  95  96 100  99
 98 100  99  98 100 101  98  99  98  98  98  96  90  88  73  82
 60  60  60  60  60  60  61  60  65  60  69  75  65  87  92  76
 95  97  97  94  89  93  92  88  91  86  60  60  60  60  60  60
 60  75  60  70  64  60  60  60  62  61  74  60   0   7  62  71
 64  72  62  60  64  65  60  60  60  60  75  67   7  75  62  61
 60  60  82  73  62  60  75  69  71  75  69  74  66  69  72  74
 69  61  61  70  66  60  66  60  60  60  60  60  61  60  60  60
 74  75  76  76  60  70  62  79  76  73  73  61   2  67  73  61
101  80  92  96  95  95  95  95  90  80  85  83  64  66  61  61
 93  92  85  65  65  85  89  87  85  82  73  83  95  79  89  91
 81  60  76  81  81  91 100  97  80  78  97  92 112 114 113 113
112 111 113 115 112 108 104 106 104  99  99 109 111 110 110 110
110 109 105 106 111 111 111 112 112 111 100 106 101 115 114 113
112 112 111 104 114 113 112 113 114 107 101 100 101 101 103 103
102 102 102 102  94  96  91  96  92  87  93  89  61  61  60  60
 60  60  60  60  60  60  62  60  63  60  60  60  65  60  60  60
 60  64  63  63  60  60  60  60  69  73  72  60  69  90  86  99
 88  81  85  92  83  71  85  87  87  87  84  85  64  83  83  81
 82  85  85  81  82  83  83  83  83  83  82  64   3  66  64  82
 83  84  84  83  84  83  84  82  82  82  83  85  76  81  82  82
 80  75  83  83  77  73  78  78  73  73  73  75  76  74  69  72
 72  66  76  73  84  88  84  89  88  88  93  83  94  92  89  92
 94  97  94  92  86  93  94  93  92  89  94  94  94  93  94  83
 91  91  93  89  95  89  83  83  83  83  80  63  73  91  98  95
 96  92  69  76  64  65  67  62  66  63  63  60  63  60  63  64
 61  63  62  70  60  60  61  80  63  60  74  66  61  60  60  64
 60  69  70  63  60  60  60  60  60  61  61  80  72  82  82  82
 82  89  84  87  85 100 105 102 102 104 107 109 107 108 107 106
END

ENTER LOG DATE (DD/MM/YR) : 12/07/79
ENTER SITE CODE (5 CHARS) : CC202
ENTER USER CODE (4 CHARS) : 4473
 ENTER JOB CODE (3 CHARS) : 272

   DATA LOGGED :19 JULY 1979          DATA ANALYZED : 14 SEPT 1979
       LOGGER : 56-301/26                 SITE CODE : CC202
SERIAL NUMBER : 1219                       JOB CODE : 272
     BASELINE : 60 DB                    USER CODE : 4473
 DYNA IC RANGE : 64 DB                   THRESHOLD : 60 DB
  SAMPLING RATE : 4/SEC                  TOTAL SAMPLES = 115200
 TEST DURATION = 08:00:00                STARTING TIME = 13:09:13

          TIME HISTORY ANALYSIS

NOISE EXPOSURE LEVEL (N.E.L.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
TOTAL DOSE = 90.0 % / 8 HRS
CRITERION ( 'MILLION') DOSE = 3 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME          LEVEL                    DOSE
HOUR    CURRENT   CUMULATIVE      CURRENT   CUMULATIVE
   1       92.6        92.6       17.808     17.81
   2       84.1        88.9        3.627     21.44
   3       82.1        87.8        2.352     23.79
   4      106.7        96.1      126.116    153.91
   5      100.8        98.7       55.540    209.45
   6       84.5        97.6        5.304    215.76
   7       89.4        98.9       11.5 2    228.94
   8       93.8        99.6       21.267    246.21
MIN. COMP. = 60 DB                MAX. COMP. = 115 DB
ARITHMETIC MEAN = 91 DB
STD. DEVIATION. = 13 DB
VARIANCE =200 DB
```

6 AMPLITUDE DISTRIBUTION 6

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
105	21.9	60 TO 64
25	5.2	65 TO 69
36	7.5	70 TO 74
33	6.9	75 TO 79
82	17.1	80 TO 84
48	10.0	85 TO 89
40	8.3	90 TO 94
37	7.7	95 TO 99
29	6.0	100 TO 104
15	3.1	105 TO 109
28	5.8	110 TO 114
2	.4	115 TO 119
TOTAL NO. OF DATA POINTS = 480		




6
6
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

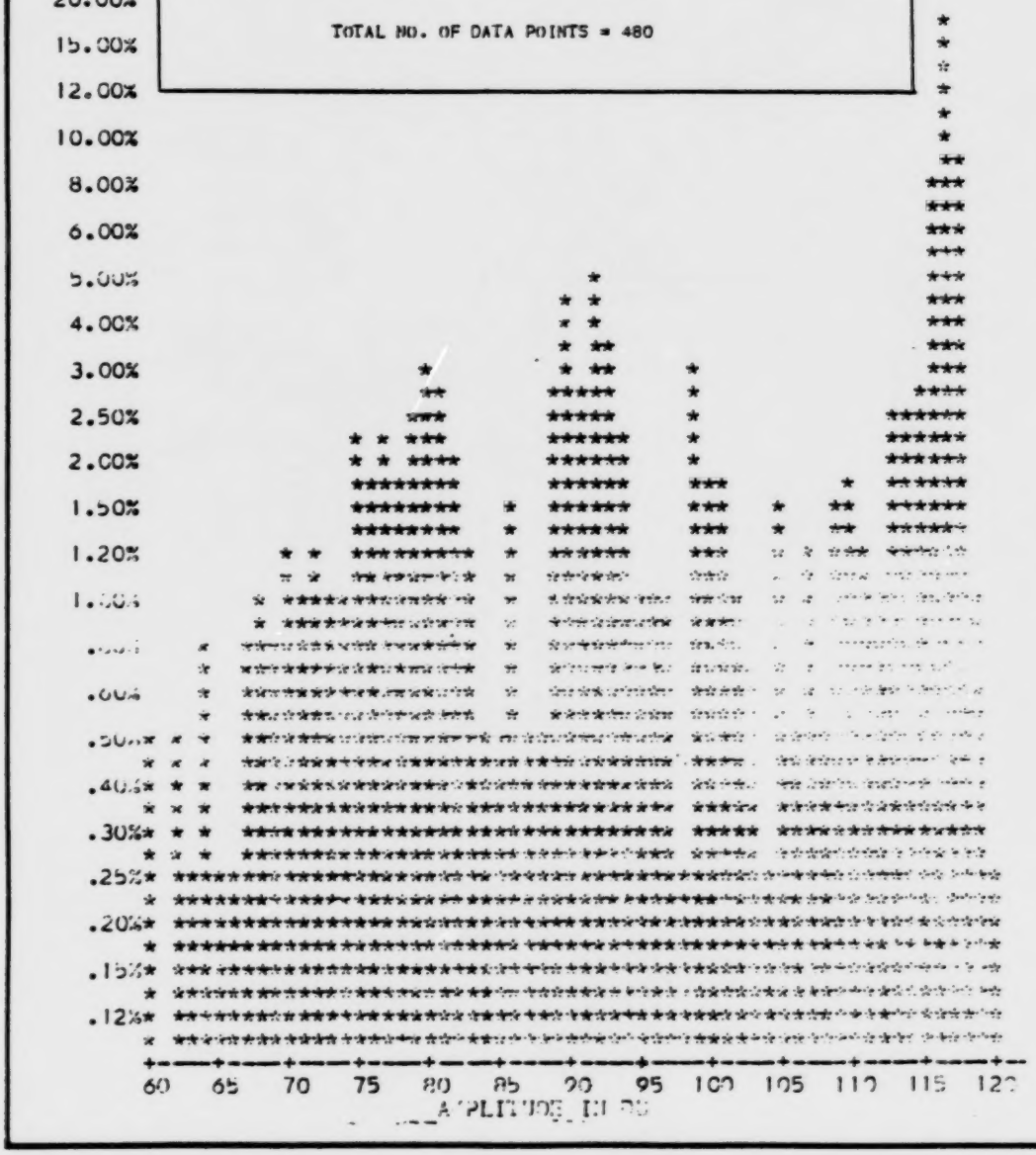
(7)

```
PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
  1  26  40   1.1.   60   64    4    1
     42      115200  480
 69  62  70  80  81  82  80  81  79  77  80  79  75  77  81  76
 60  75  80  64  77  78  72  71  79  83  79  76  75  78  82  79
 79  81  75  77  76  72  82  89 100  99  99  99 100  99  99  99
 99 100 101 102 102 101 100 101 101  96  99 103 100  94  85  72
 67  67  67  68  68  71  76  75  79  80  70  60  93 101  89  75
 77  82  81  80  76  83  80  86  75  81  81  83  91  91  82  85
 88   4  89  91  72  77  82  94  91 103  99  92  91  92  92  93
 93  95  95  94  94  80  89  98  93  91  --  92   6  95  91  --
 92  89  85  89  91  91  96  96  80  83  90  83  89  91  91  --
 92  91  93  94  93  92  91  91  92  92  93  90  --  87  --  --
 93  93  94  93  94  92  93  93  89  84  78  80  78  75  79  80
 86  97  93  97 101  93  91  --  113 111 115 115  1 7 1 99 100 117
117 117 117 105  97 114 115 116 117 117 116 107 100 117 117 113
 98 117 117 117 117 109 106 116 114 117 109 117 117 117 117 117
117 115 115 112 113 115 117 117 117 117 114 116 116 11. 111 117
112 114 107 110 113 117 116 116 113 117 116 116  99  92  91  --
 91  92  93  96 116 116 116 117 100 110 117 116 117 115 117 116
117 117 117 117 105 116 115 117 116 117 117 117 116 114  97  94
 94 103  89  82  77  85  87  76  76  74  71  73  71  72  63  70
 73  75  80  68  64  73  66  69  64  75  68  65  77  78  74  77
 89  74  86  88  62  80  99  99  99  93  93  92  94 111 117 115
102 117 115 117 114 117 117 117 117 104 108 113 118 118 107 116
114 116 116 116 115 118 117 116 117 107 110 114  93 103 117  91
118 118 117 116 116 113 118 117 117 117 111 112 105 117 118 116
117 114 115 118 117 117 111 111 116 118 115 119 114 118 119 119
117 116 116 116 117 117 109  99  92  92  92  96 113 113 116 116
118 117 117 116 113 117 116 117 117 118 118 118 117 116 116 117
116 114 114 117 117 105 110 118 113 118 116 120 117 117 108 105
110 107 112 100 114 115 116 117 113 117 116 117 117 116 117 115
110 116 105  94  86  81  79  89 101  86  70  76  73  70  74  72
%EOF


ENTER LOG DATE (DD/MM/YR) : 19/07
79

ENTER SITE CODE (5 CHARS) : CC203
ENTER USER CODE (4 CHARS) : 4090

 ENTER JOB CODE (3 CHARS) : 281


   DATA LOGGED :19 JULY 1900          DATA ANALYZED : 14 SEPT 1979
        LOGGER : 5a-301/26                 SITE CODE : CC203
 SERIAL NUMBER : 1212                      JOB CODE : 281
      BASELINE : 60 DB                     USER CODE : 4090
 DYNAMIC RANGE : 94 DB                     THRESHOLD : 60 DB
 SAMPLING RATE : 4/SEC                TOTAL SAMPLES = 115200
 TEST DURATION = 28 HR 0 MIN           STANDBY TIME = 0 HR 0 MIN


          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
LOGA CODE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME          LOGA                    CODE
HOUR    CURRENT   CUMULATIVE     CURRENT   CUMULATIVE
   1       92.9         92.9      18.600        18.60
   2       88.7         91.1      10.471        29.07
   3       91.0         91.1      14.430        43.51
   4      114.5        103.3     375.698       419.21
   5      112.6        107.5     287.634       706.84
   6      110.7        108.1     219.621       926.46
   7      115.3        109.7     414.249      1340.71
   8      113.7        110.3     336.094      1676.80
MIN. COMP. = 60 DB              MAX. COMP. = 120 DB
ARITHMETIC MEAN = 98 DB
STD. DEVIATION = 17 DB
VARIANCE =289 DB
```

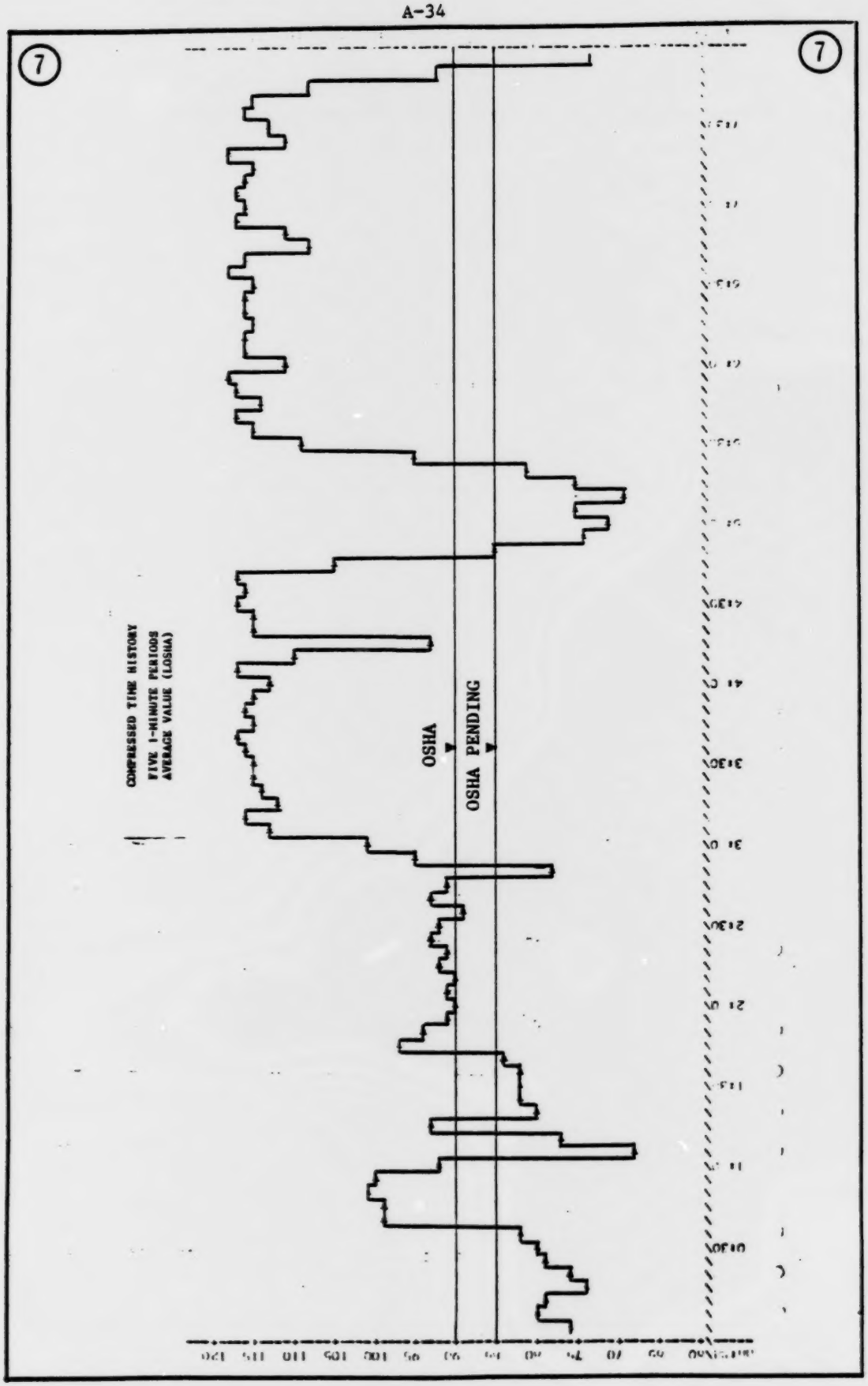
(7)

(7)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
8	1.7	60 TO 64
12	2.5	65 TO 69
22	4.6	70 TO 74
42	8.8	75 TO 79
38	7.9	80 TO 84
23	4.8	85 TO 89
72	15.0	90 TO 94
26	5.4	95 TO 99
22	4.6	100 TO 104
21	4.4	105 TO 109
36	7.5	110 TO 114
157	32.8	115 TO 119
TOTAL NO. OF DATA POINTS = 480		



(7)


7
7
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(8)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
1 25 30 1213 60 64 4 1
443 115200 480

63	61	63	74	78	79	78	75	79	76	76	77	74	73	70	79
66	69	75	79	76	75	69	73	65	61	68	74	66	67	80	86
91	93	94	97	91	99	98	96	97	98	94	97	93	100	95	99
91	62	63	66	60	60	60	60	60	60	60	60	60	60	60	60
60	70	60	60	60	60	60	60	60	61	86	81	80	73	72	84
95	91	91	85	8	97	95	97	100	96	96	99		99	97	8
96	98	91	97	84	94	93	84	83	83	83	83	83	93	94	8
97	99	95	97	97	91	80	80	91	75	76	65	68	93	92	8
61	60	60	81	101	99	99	100	98	100	82	81	73	67	71	68
65	79	91	86	83	84	80	80	81	80	83	82	80	80	81	8
60	60	60	60	62	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	75	72	89	98	106	103	99	103
108	103	99	109	107	105	106	105	104	104	106	106	107	106	99	105
107	106	102	104	106	107	105	96	107	107	107	102	109	107	106	102
103	107	106	103	108	106	103	102	107	106	101	99	102	108	106	104
99	99	99	99	99	99	99	106	107	105	105	105	107	103	105	101
109	107	106	100	100	104	109	107	106	98	98	107	108	107	104	102
104	108	105	103	107	107	106	100	102	107	103	107	105	106	105	102
107	103	109	108	106	107	107	106	102	108	108	107	104	106	108	106
103	109	103	106	100	99	99	107	107	105	101	100	107	106	99	103
106	106	100	104	109	108	104	99	103	102	106	106	106	107	104	105
108	107	103	110	108	107	101	100	110	108	107	104	101	108	107	105
108	108	105	102	109	107	104	109	107	106	105	109	107	107	101	104
108	106	102	108	106	103	107	106	106	99	111	106	107	103	108	109
107	104	104	110	108	106	101	99	107	107	106	99	108	108	106	101
107	108	108	104	109	109	107	105	109	108	105	100	110	108	106	105
111	108	105	100	99	60	60	62	86	86	99	96	89	100	97	94
93	92	95	98	101	84	62	64	62	60	60	60	60	60	60	60
62	61	73	69	60	60	60	60	60	60	60	60	66	60	61	60	60
60	65	60	60	60	61	77	75	76	72	71	60	60	82	100	93

EOF

ENTER LOG DATE (DD/MO/YR) : 19/07/79
ENTER SITE CODE (5 CHARS) : CC2C4
ENTER USER CODE (4 CHARS) : 2901
ENTER JOB CODE (3 CHARS) : 281

DATA LOGGED :19 JULY 1979
LOGGER : DR-301/2b
SERIAL NUMBER : 1213
BASELINE : 60 DB
DYNAMIC RANGE : 40 DB
SAMPLING RATE : 4/SEC
TEST DURATION = : 0: 0

DATA ANALYZED : 14 SEPT 1979
SITE CODE : CC2C4
JOB CODE : 281
USER CODE : 2901
NUMBER/SAMPLE : 60 D
TOTAL SAMPLES = 115200
START TIME = : 0: 0

TIME HISTORY ANALYSIS

LOGIC EXPOSURE LEVEL (L.E.L.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
LOGGER DR = 40 DB / 4 VOLTS
MAXIMUM (CLIP) LEVEL = 100 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

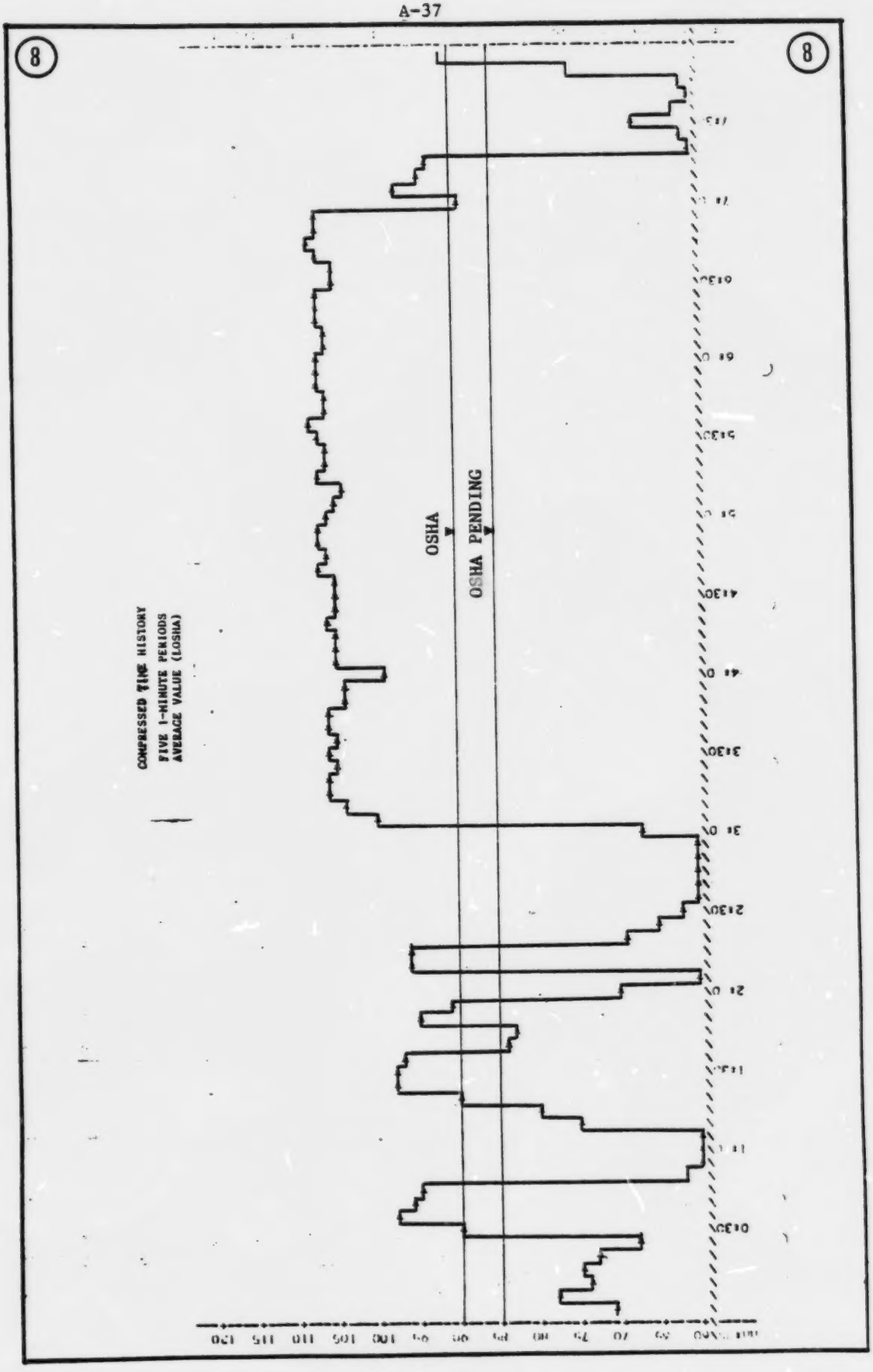
HOUR	LEVEL SOUND	LEVEL CUMULATIVE	NOISE SOUND	NOISE CUMULATIVE
1	88.0	88.0	9.441	9.44
2	91.1	93.7	14.477	23.92
3	88.8	93.2	3.1[illegible]	27.10
4	104.3	99.3	98.A.1	126.08
5	109.4	99.3	100.193	226.47
6	106.3	101.0	119.479	345.95
7	105.5	102.1	122.34[illegible]	46[illegible]
8	97.3	101.3	8.643	477.44

MIN. COMP. = 60 DB
ARITHMETIC MEAN = 99 DB
STD. DEVIATION = 1[illegible]
VARIANCE =391 DB

(8)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP ..
NUMBER	PER CENT	
107	22.3	60 TO 64
16	3.3	65 TO 69
15	3.1	70 TO 74
19	4.0	75 TO 79
23	4.8	80 TO 84
7	1.5	85 TO 89
14	2.9	90 TO 94
60	12.5	95 TO 99
66	13.8	100 TO 104
147	30.6	105 TO 109
6	1.3	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


8
8
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
7:0
7:30
120
115
110
105
100
95
90
85
80
75
70
65
60

9 9

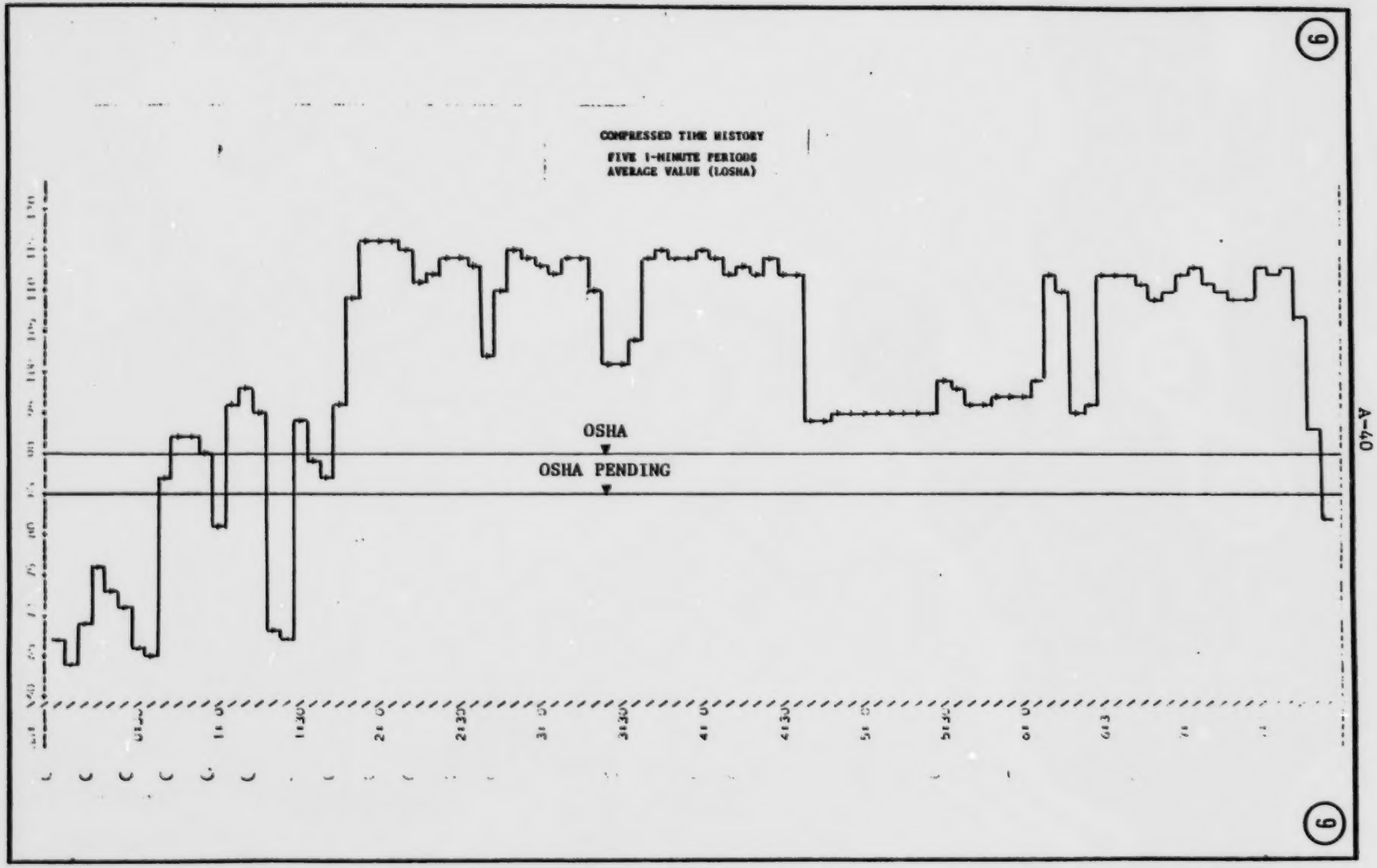
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1225   60   64    4    1
     201     115200  480
  61  67  70  70  62  61  62  67  64  64  60  60  60  70  77  78
  76  80  70  74  68  77  76  69  72  68  72  74  73  66  69  70
  60  64  65  65  60  61  62  71  67  67  86  92  92  91  92  92
  92  92  91  89  95  93  92  92  93  95  76  66  71  81  82  82
  83  91  97  93  96 100 100  97  97  96  99  97  97  98  91  72
  66  72  70  67  63  62  73  63  65  65  75  65  86  94 103  94
  82  83  92  85  88  87  88  85  86  93  95  93  97 100 107 101
 10[illegible] 111 114 115 116 116 116 116 116 115 116 115 116 116 115 116
 116 116 115 115 115 115 115 114 113 111 110  95 102 112 112 113
 114 115 114 114 114 114 113 114 115 114 115 114 113 113 112 110
 107 [illegible]6  95  96 105  99  99 111 114 114 115 115 115 115 115 114
 114 115 115 114 113 113 113 112 112 112 110 110 111 114 115 115
 114 111 113 114 113 112 115 115 115 115 106 102 101 101 101 101
 101 101 101 101 101 101 101 100 100 100 100 111 114 115 114 112
 116 116 115 113 116 115 114 115 115 115 113 115 115 115 114 112
 115 115 114 114 115 115 112 113 115 115 114 114 113 111 101 112
 114 114 113 113 112 113 113 108 114 114 114 113 114 113 113 108
 111 114 114 114 113 113 113  99  95  94  94  94  94  94  94  94
  95  95  95  95  95  95  95  95  95  95  95  95  95  95  95  95
  95  95  95  95  95  95  95  95  95  95  95  95  95  95  95  95
  95  95  95  95  95  94  95  94  94  96  99  99  99  99  99 100
  99  98  95  95  95  95  96  96  96  96  96  96  95  96  96  96
  97  97  97  97  97  97  97  97  97  97  97  97  97  96  97  96
  96 104 111 113 113 113 112 112 112 110 109 105  95  94  94  94
  96  96  97  95  95  98 108 112 112 112 113 113 113 112 111 111
 112 111 111 113 112 112 112 111 111 109 111 110 108 107 108 111
 111 109 111 110 111 112 112 112 111 113 112 112 113 113 112 112
 112 110 105 109 110 111 111 110 110 110 110 109 102  97 108 110
 111 111 110 113 114 113 113 108 111 110 114 114 114 115 112 114
 112 115 112  97  83  80  92  98  97  87  75  69  80  62  62  92
%EOF


ENTER LOG DATE (DD/MM/YR) : 12/07/79

ENTER SITE CODE (5 CHARS) : CC220

ENTER USER CODE (4 CHARS) : 4174
 ENTER JOB CODE (3 CHARS) : 270


   DATA LOGGED :12 JULY 1979          DATA ANALYZED : 12 SEPT 1979
        LOGGER : [illegible]-301/26                SITE CODE : CC210
SERIAL NUMBER : 1225                        JOB CODE : 270
      BASELINE : 60 DB                     USER CODE : 4174
DYNAMIC RANGE : 54 DB                     THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0:50

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                      %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      83.4       83.4        5.035       5.04
   2     102.0       97.5       65.704      70.74
   3     113.3      106.8      315.846     386.59
   4     111.[illegible]     103.5      260.387     646.97
   5     110.4      108.9      211.620     858.59
   6      96.1      107.8       29.007     887.60
   7     1[illegible].7      10[illegible].0      1[illegible].590    1[illegible].2[illegible]
   8     10[illegible].6      108.2      194.671    1246.95
MIN. COMP. =  60 DB            MAX. COMP. = 116 DB
ARITHMETIC MEAN =  99 DB
STD. DEVIATION =  15 DB
VARIANCE = 25 DB
```

(9)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
19	4.0	60 TO 64
18	3.8	65 TO 69
16	3.3	70 TO 74
8	1.7	75 TO 79
10	2.1	80 TO 84
10	2.1	85 TO 89
35	7.3	90 TO 94
109	22.7	95 TO 99
26	5.4	100 TO 104
20	4.2	105 TO 109
153	31.9	110 TO 114
56	11.7	115 TO 119

TOTAL NO. OF DATA POINTS = 480

(9)


COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
9
9

(10)

PLACE TAPE ID NUMBER THEN TYPE A "SPACE" AND A "RETURN"

1 25 40 1217 60 64 4 1
20551 101434 422

60	63	64	63	60	60	60	70	60	60	60	61	60	64	60	60
64	69	60	72	69	73	61	61	69	67	77	97	77	69	64	72
69	67	62	60	71	66	65	75	75	73	72	80	71	74	75	77
75	65	63	66	65	68	70	72	74	68	74	78	83	90	99	97
68	60	62	62	60	61	60	60	60	60	94	89	88	86	88	92
69	69	67	84	84	85	90	92	93	76	60	60	60	60	60	60
60	70	71	79	64	60	60	60	60	60	60	60	60	60	60	77
69	69	69	90	66	60	60	60	60	60	60	60	67	69	90	89
82	81	60	60	60	60	60	60	60	87	89	89	62	60	60	60
60	60	60	61	69	69	68	63	60	60	60	60	60	60	60	77
90	88	69	90	89	84	86	89	87	88	87	85	83	83	93	85
81	80	80	80	94	83	79	78	80	66	66	60	60	84	85	84
84	83	87	85	86	84	85	88	87	87	89	92	92	90	90	106
110	111	111	111	110	110	111	111	111	111	108	110	110	111	111	111
110	111	110	110	110	111	111	110	109	109	111	111	111	110	111	109
108	109	111	112	111	94	87	87	87	84	75	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	105	111	111	111	110	109	109	106	112	111	110	111	110
110	108	111	112	109	107	106	108	108	100	105	107	109	104	106	107
108	108	106	108	102	88	86	86	87	89	96	105	106	106	105	101
86	95	91	70	75	74	73	77	73	77	72	71	78	67	79	74
78	75	93	99	94	96	97	96	96	96	95	80	81	75	72	84
86	94	95	78	83	86	74	71	70	82	81	76	73	79	79	78
78	79	79	69	81	63	60	64	75	79	66	77	69	65	60	64
60	60	60	60	60	60	60	60	61	60	66	60	64	66	60	60
60	60	60	60	60	62	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

EOF

ENTER LOG DATE (DD/MO/YR) : 13/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4290
ENTER JOB CODE (3 CHARS) : 271

DATA LOGGED :13 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1217
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 7: 2:30

DATA ANALYZED : 12 SEPT 1979
SITE CODE : CC210
JOB CODE : 271
USER CODE : 4290
THRESHOLD : 60 DB
TOTAL SAMPLES = 101434
STANDBY TIME = 1:25:37

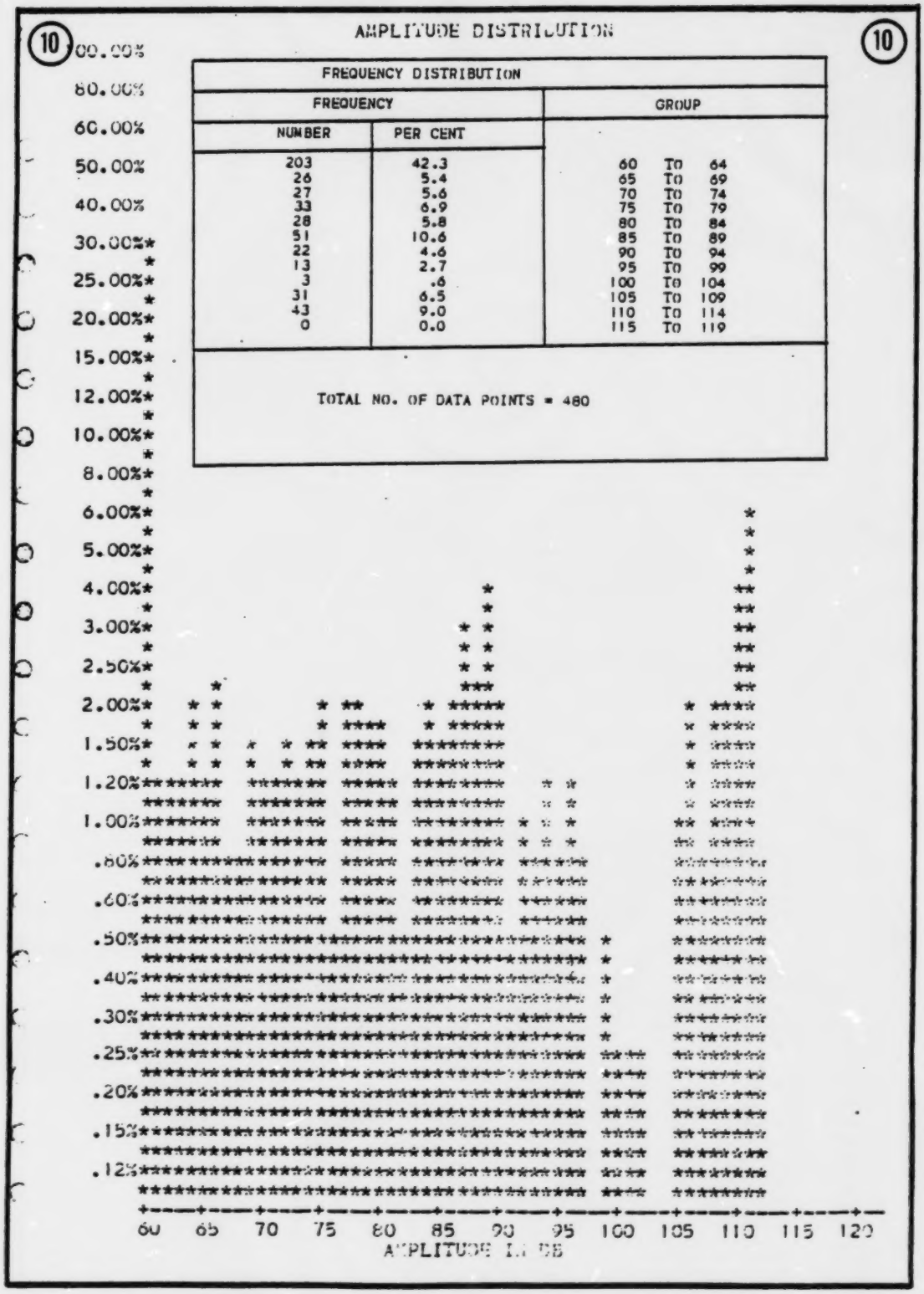
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 422
PERIOD = 1 MINUTES

TIME HOUR	LEQ(A) CURRENT	LEQ(A) CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	73.5	73.5	1.277	1.28
2	83.9	80.5	5.383	6.66
3	82.9	81.4	4.699	11.36
4	106.2	96.8	117.651	129.01
5	99.6	97.5	47.177	176.19
6	103.2	98.8	78.096	254.28
7	81.9	97.8	3.722	258.00
8	81.1	97.8	.009	258.01

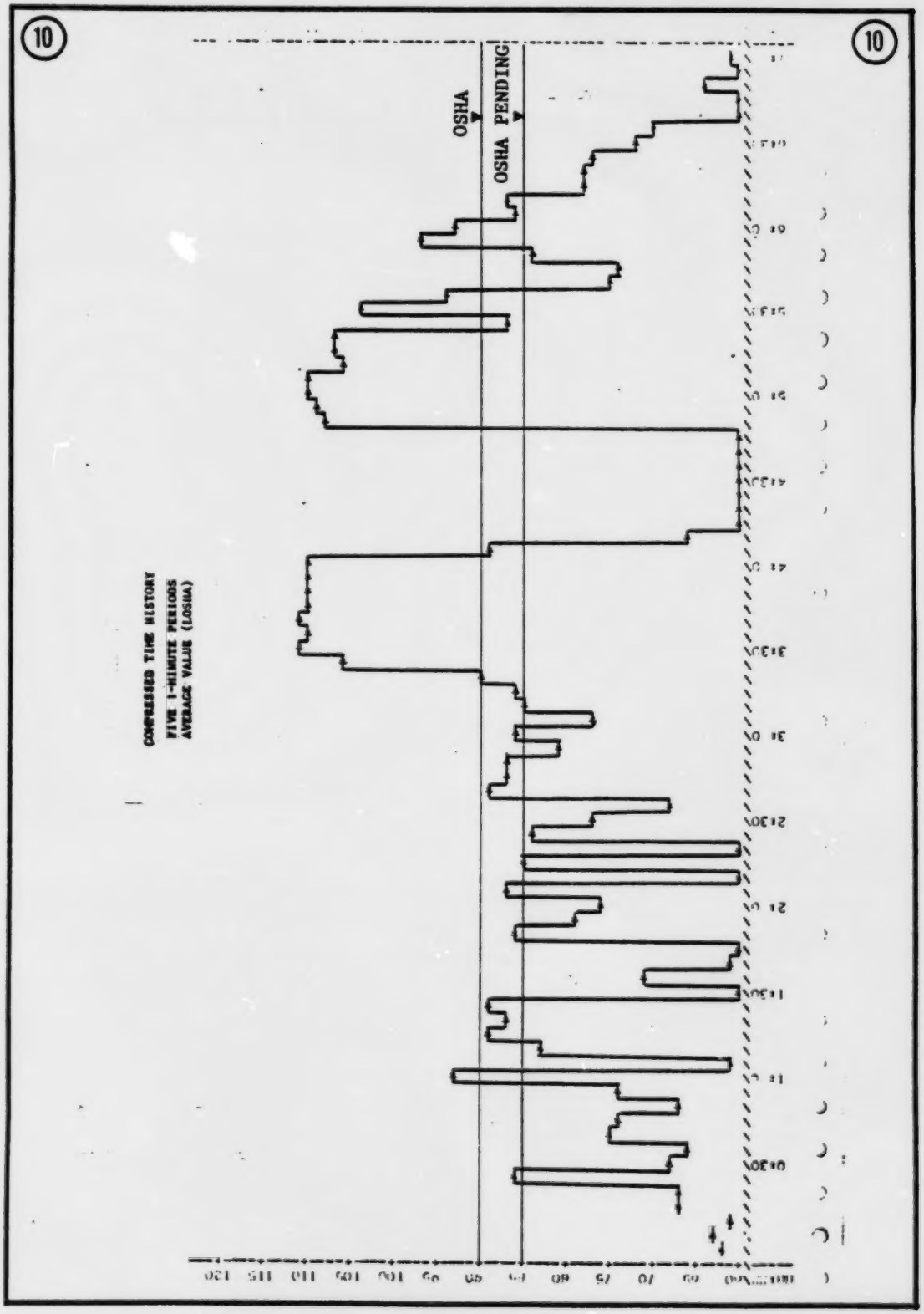
MIN. COMP. = 60 DB
ARITHMETIC MEAN = 79 DB
STD. DEVIATION = 18 DB
VARIANCE = 326 DB

MAX. COMP. = 112 DB



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
203	42.3	60 TO 64
26	5.4	65 TO 69
27	5.6	70 TO 74
33	6.9	75 TO 79
28	5.8	80 TO 84
51	10.6	85 TO 89
22	4.6	90 TO 94
13	2.7	95 TO 99
3	.6	100 TO 104
31	6.5	105 TO 109
43	9.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


10
10
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(11) (11)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1	26	60	1212	60	64	4	1								
	44		115200	480											
62	60	60	60	67	64	60	60	61	60	63	65	60	60	71	60
70	73	76	71	66	66	65	60	69	60	70	76	82	80	71	91
93	93	93	94	94	95	102	102	101	102	101	99	102	101	100	99
84	73	74	72	81	74	70	67	77	68	71	72	67	73	74	71
74	82	76	70	76	79	74	71	77	79	72	65	60	67	68	71
66	68	69	77	81	78	90	97	89	95	82	85	85	86	86	87
88	87	84	87	85	85	82	85	86	92	89	91	91	91	93	97
96	112	114	113	113	114	115	115	113	116	116	114	115	115	115	115
114	114	114	113	112	112	114	114	113	114	112	114	114	114	112	113
111	112	113	112	114	114	115	116	114	113	115	115	115	114	115	114
114	111	111	115	113	112	113	113	112	114	114	114	114	114	113	110
102	109	110	109	110	110	110	110	110	110	110	98	90	94	93	92
90	103	100	109	109	112	115	114	114	112	112	112	112	111	111	113
112	113	111	113	109	112	111	114	114	111	111	115	111	109	96	110
112	112	113	109	111	112	109	109	109	110	109	110	110	109	109	109
107	105	102	93	92	91	91	92	89	89	91	88	86	81	80	82
86	84	88	88	87	88	83	84	89	97	93	100	85	78	71	75
76	61	62	62	64	60	60	70	65	71	77	71	66	68	61	64
68	75	60	66	67	63	65	65	65	68	61	66	61	67	73	72
77	73	72	73	76	73	74	78	76	74	89	95	101	93	81	89
92	101	98	95	93	94	97	90	91	97	89	91	89	89	90	89
93	92	93	93	91	91	91	91	91	91	91	91	91	92	92	92
92	92	92	92	92	92	92	91	92	93	89	89	89	90	89	89
90	90	90	90	90	91	90	90	90	91	87	82	82	82	82	80
82	83	85	84	83	82	82	81	82	85	81	82	83	85	83	84
84	85	84	84	83	87	82	84	87	88	73	75	73	73	60	79
82	74	66	68	62	86	71	81	85	85	84	83	82	69	64	76
83	80	73	60	72	60	71	65	60	65	60	60	60	60	60	68
60	60	60	74	69	60	60	62	60	65	61	60	60	65	60	60
62	65	65	60	61	62	63	64	60	60	60	60	60	60	61	67

&EOF

ENTER LOG DATE (DD/MM/YR) : 13/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 7086
ENTER JOB CODE (3 CHARS) : 281

DATA LOGGED :13 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1212
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 12 SEPT 1979
SITE CODE : CC210
JOB CODE : 281
USER CODE : 7086
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 8: 0:11

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

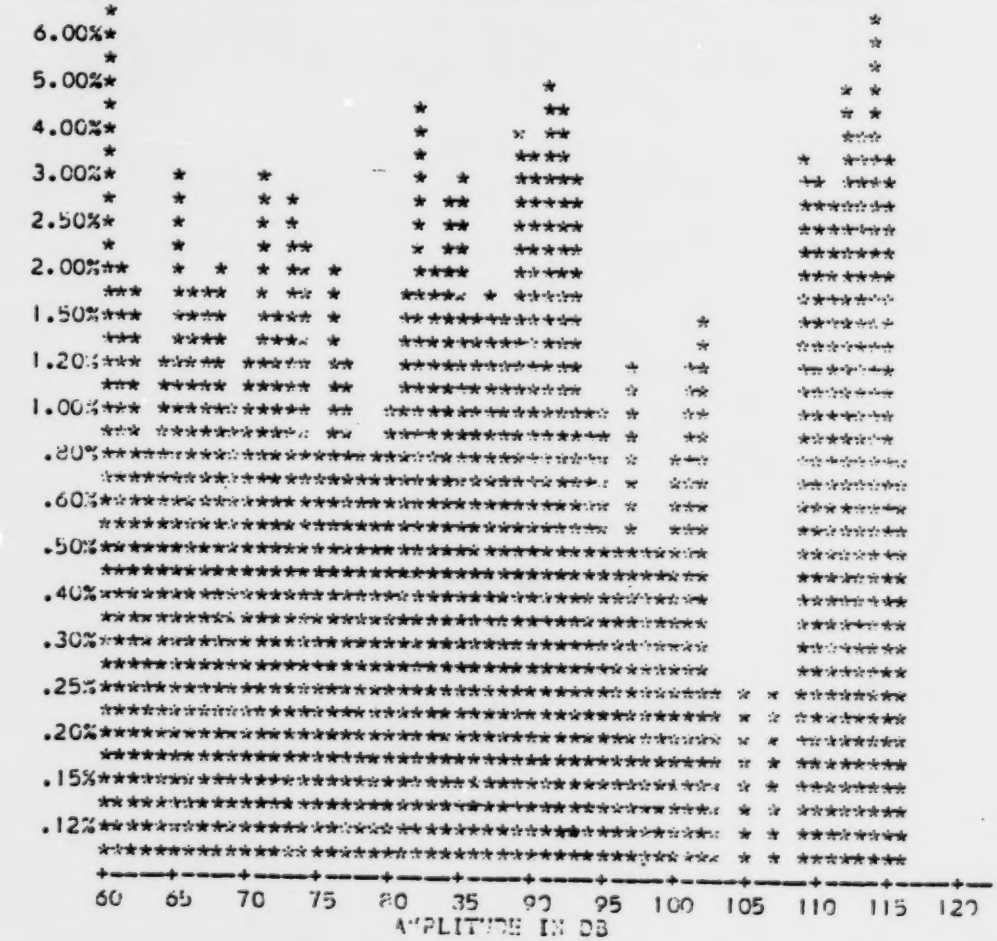
TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	90.1	90.1	12.597	12.59
2	99.3	96.1	45.612	5[illegible].20
3	113.4	106.7	322.2[illegible]	[illegible]
4	110.3	107.8	207.[illegible]	[illegible].92
5	88.9	106.3	10.692	[illegible].62
6	91.1	105.2	14.4[illegible]	613.0[illegible]
7	85.7	10[illegible].1	[illegible]	61[illegible].95
8	72.4	103.2	1.[illegible]	621.04

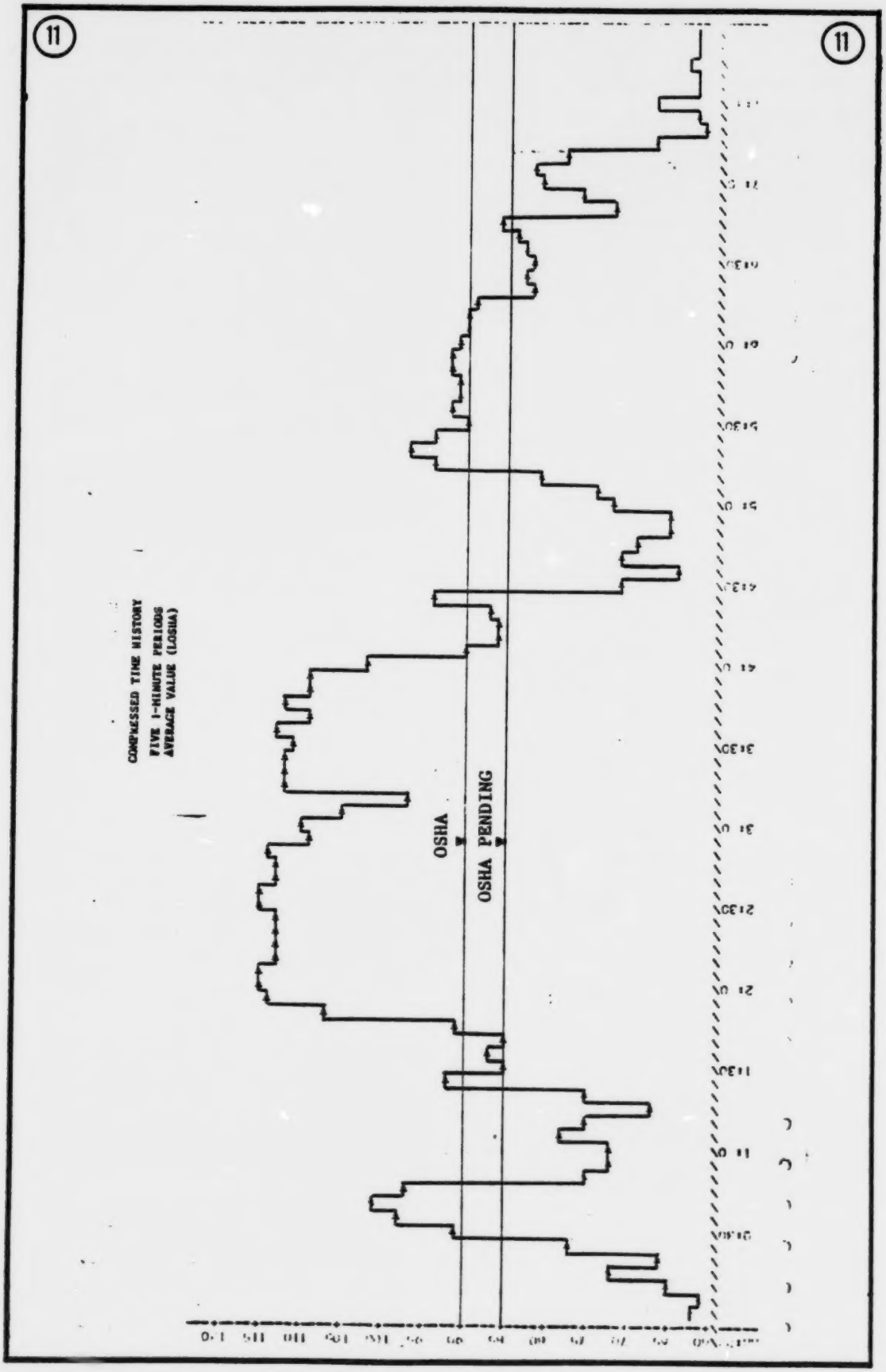
MIN. COMP. = 60 DB MAX. COMP. = 11[illegible]
ARITHMETIC MEAN = [illegible]
STD. DEVIATION = 1[illegible]
VARIANCE = [illegible]

(11) AMPLITUDE DISTRIBUTION (11)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
64	13.3	60 To 64
39	8.1	65 To 69
43	9.0	70 To 74
22	4.6	75 To 79
47	9.8	80 To 84
47	9.8	85 To 89
69	14.4	90 To 94
15	3.1	95 To 99
15	3.1	100 To 104
16	3.3	105 To 109
86	17.9	110 To 114
17	3.5	115 To 119

TOTAL NO. OF DATA POINTS = 480




11
11
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(12) (12)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

```
  1  26  80  1220   60   64    4    1
     249     115200  480
 62  60  60  61  60  62  60  60  62  70  64  63  62  61  60  62
 69  70  77  64  60  60  62  60  61  60  64  70  81  60  80  88
 93  91  92  91  91  91  90  90  92  99  98  99  98  98  100  96
 94  95  85  66  61  60  60  60  60  60  60  62  60  62  73  75
 64  90  86  98  98  70  60  60  65  79  85  82  62  60  68  82
 82  83  86  87  88  88  83  84  83  82  87  82  83  83  83  84
 85  87  91  96  104  105  103  83  87  81  83  86  95  80  97  93
 90  100  96  102  101  87  90  95  100  105  106  106  106  104  107  107
108  107  107  102  104  106  107  108  108  106  108  107  103  95  98  105
108  101  83  89  99  89  96  104  106  107  106  105  107  107  107  105
108  110  111  106  104  104  104  106  105  87  90  98  100  102  104  105
104  104  105  103  103  103  103  99  81  81  78  80  86  72  62  83
 83  65  64  95  94  96  100  96  102  104  85  83  83  84  84  83
 84  81  85  80  81  76  60  68  87  97  101  103  104  104  105  105
105  104  105  102  102  102  98  101  106  106  105  107  107  106  105  103
 98  105  107  109  108  107  106  106  106  105  104  100  92  105  104  105
105  105  104  102  102  92  92  87  93  100  105  104  103  103  103  103
101  96  104  104  106  104  103  103  98  86  89  91  106  107  106  108
105  99  105  104  104  104  104  103  104  104  103  100  100  86  101  104
104  104  104  102  93  97  79  61  73  64  60  60  63  70  64  60
 65  97  89  69  60  60  60  60  68  60  61  60  62  65  60  60
 60  60  60  60  61  60  60  77  84  100  102  94  90  92  82  88
 90  91  94  82  83  81  81  81  81  88  84  87  86  93  93  98
 96  95  84  80  78  95  99  87  60  77  83  79  61  60  60  60
 60  79  82  83  83  80  73  74  85  81  69  62  67  84  91  91
 98  85  97  96  94  81  81  81  81  81  81  81  81  81  81  81
 81  82  83  89  84  88  87  88  97  102  102  99  102  103  92  88
 88  90  81  60  60  60  63  60  60  60  60  60  60  60  60  60
 60  60  60  60  61  60  61  61  67  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  76  89
$EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 16/07/79
ENTER SITE CODE (5 CHARS) : CC210

ENTER USER CODE (4 CHARS) : 4227
 ENTER JOB CODE (3 CHARS) : 270
```

```
   DATA LOGGED :16 JULY 1979          DATA ANALYZED : 13 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : CC210
SERIAL NUMBER : 1220                        JOB CODE : 270
     BASELINE : 60 DB                      USER CODE : 4227
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0               STANDBY TIME =   0: 1: 2
```

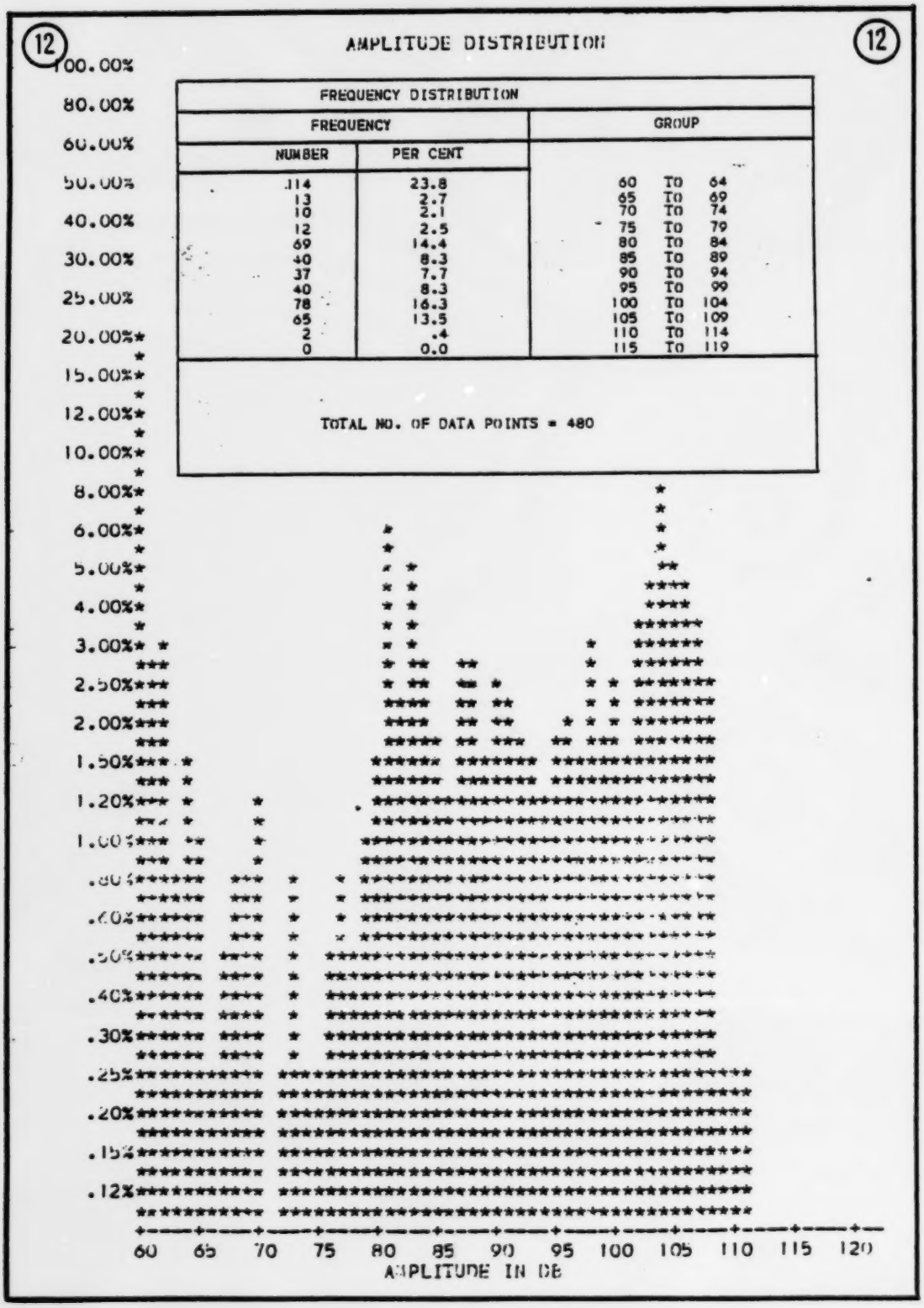
TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	87.0	87.0	8.265	8.26
2	91.4	89.5	15.117	23.38
3	104.9	98.5	98.736	122.12
4	99.2	98.7	44.728	166.85
5	103.4	99.9	79.947	246.79
6	91.3	99.0	14.878	261.67
7	87.4	98.1	8.662	270.33
8	86.4	97.4	7.600	277.93

```
MIN. COMP. =  60 DB                MAX. COMP. = 111 DB
ARITHMETIC MEAN =  85 DB
STD. DEVIATION =  17 DB
VARIANCE =289 DB
```

(12) AMPLITUDE DISTRIBUTION (12)



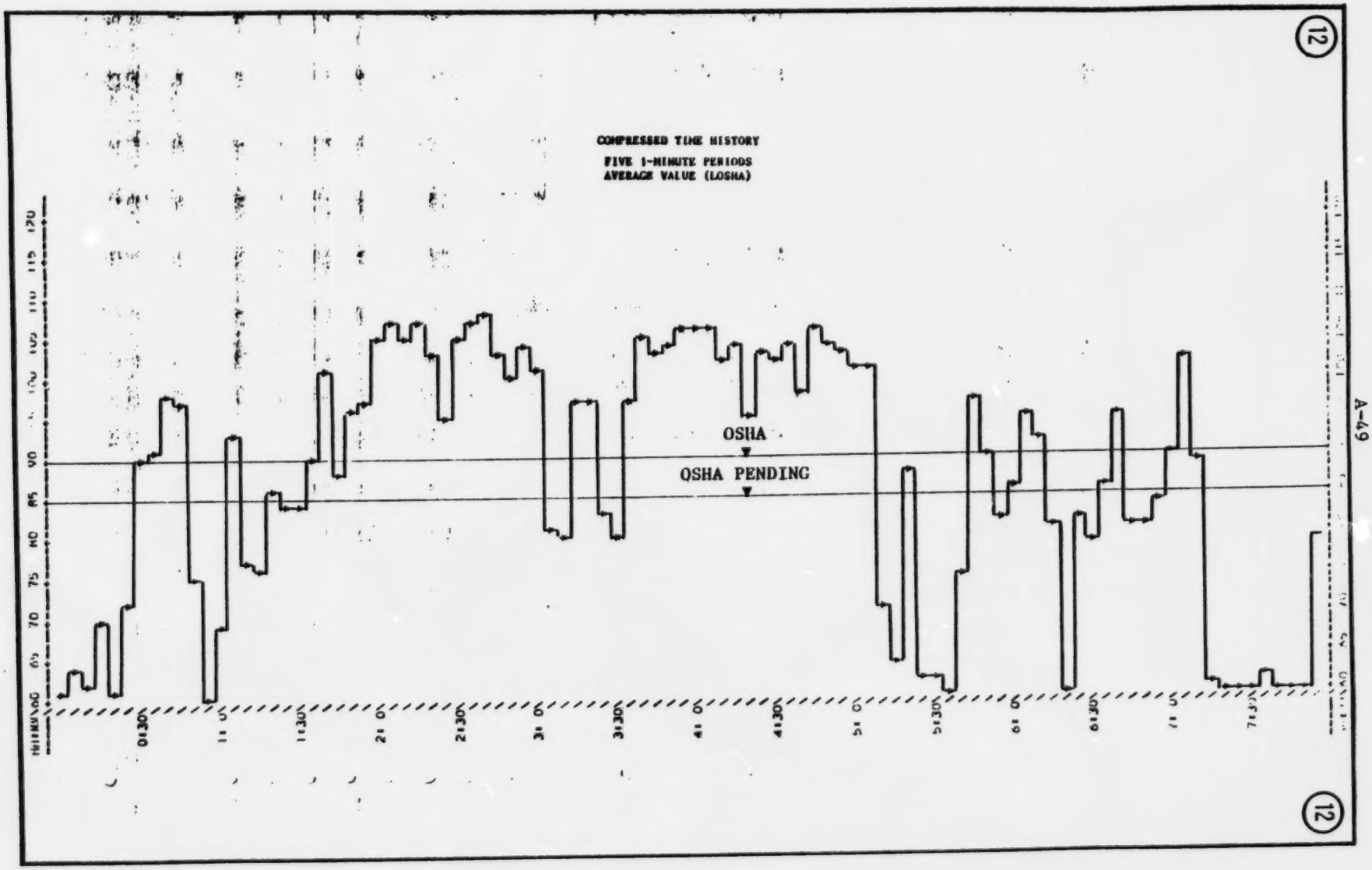
FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
114	23.8	60 TO 64
13	2.7	65 TO 69
10	2.1	70 TO 74
12	2.5	75 TO 79
69	14.4	80 TO 84
40	8.3	85 TO 89
37	7.7	90 TO 94
40	8.3	95 TO 99
78	16.3	100 TO 104
65	13.5	105 TO 109
2	.4	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

100.00%
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%

60 65 70 75 80 85 90 95 100 105 110 115 120

AMPLITUDE IN DB


COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
12
12

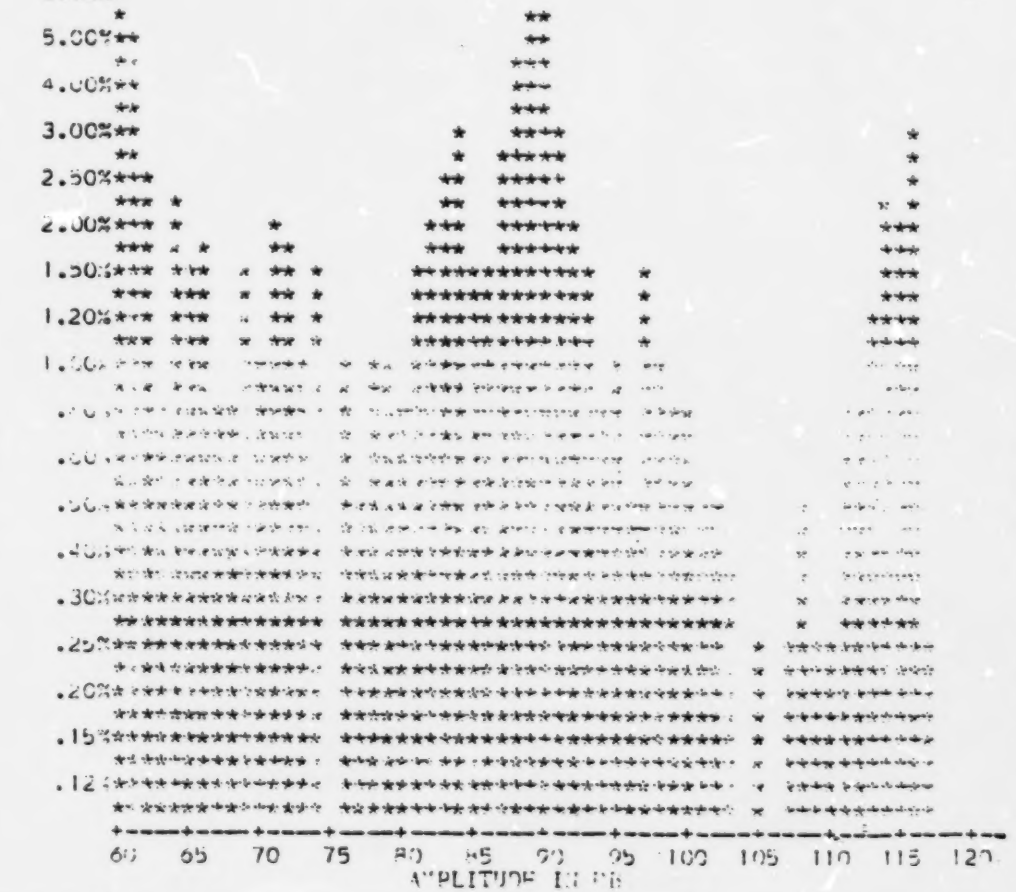
(13) (13)

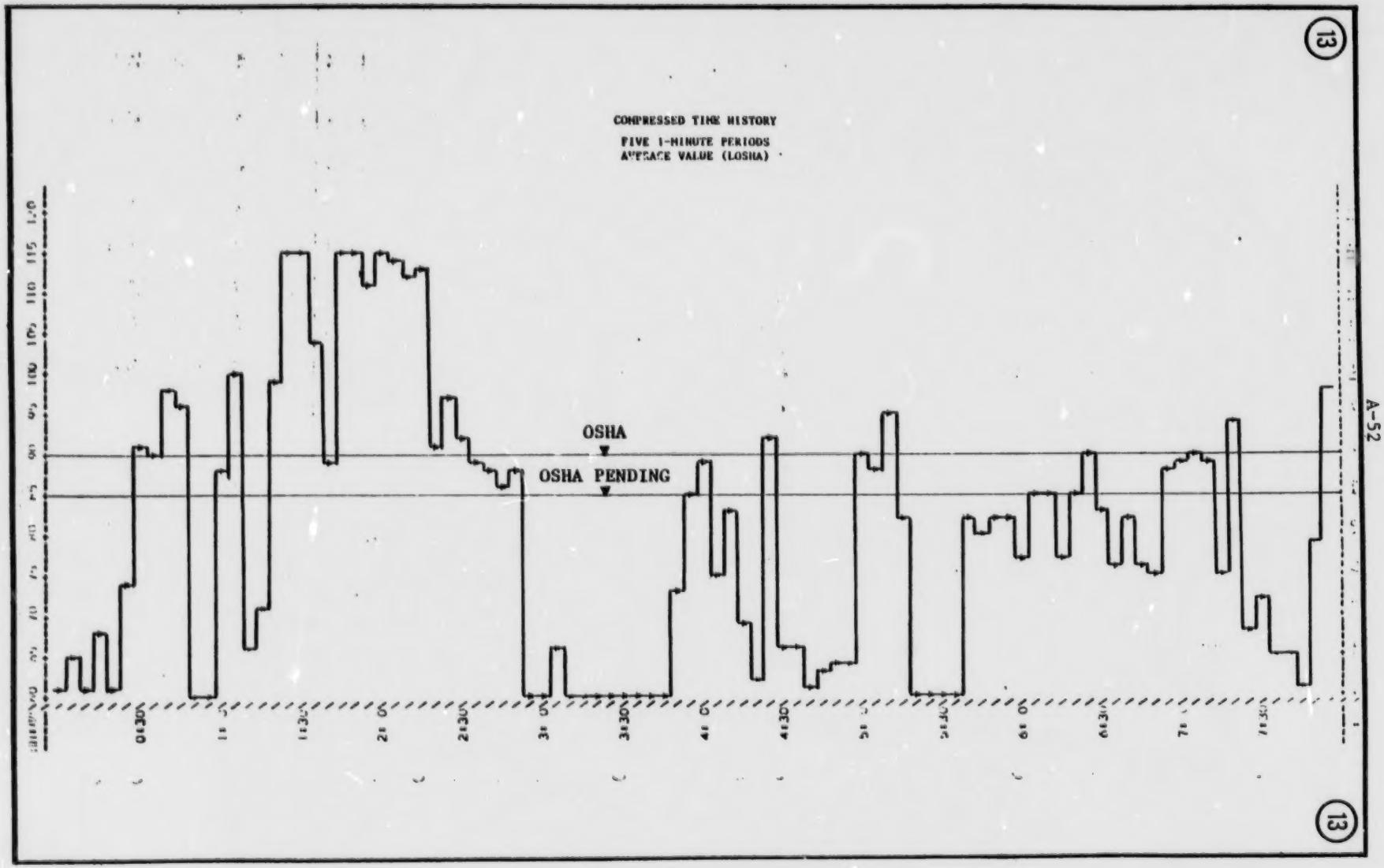
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

  1  26  80  1226   60   64    4    1
     343     115200  480
  61  60  62  60  61  60  60  60  71  64  60  60  64  60  60  71
  72  69  61  60  60  62  62  61  60  62  72  80  60  78  88  92
  92  91  90  90  90  90  90  91  99  98  98  98  97 100  97  95
  94  88  61  60  60  60  60  60  60  60  60  60  60  66  88  92
  93  97 103 105  95  76  74  60  60  60  60  60  81  60  60  60
  86  91 101 102 103 111 114 116 116 116 116 116 116 116 113  99
 108 110  [illegible]  89  89  89  [illegible]  [illegible]  [illegible] 111 114 117 116 116 116 116
 115 115 113 113 112 102 109 114 116 116 115 115 115 115 115 115
 112 113 108 111 114 114 113 113 114 114 114 112  93  92  91  89
  89 107  87  85  88  91  91  93  92  91  91  79  91  91  89  89
  89  90  84  87  87  90  86  81  71  90  93  92  89  81  60  60
  60  60  60  60  60  60  60  60  60  60  68  72  61  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  61  83  66  65  61  67  71  80  88  88  88
  88  88  89  90  90  77  66  82  69  61  77  82  86  85  84  79
  60  60  60  60  60  60  60  66  60  60  94  96  95  89  64  61
  64  66  70  62  61  74  63  61  60  60  60  65  60  61  65  62
  62  66  70  64  61  61  60  67  61  63  64  62  89  93  87  89
  90  90  89  88  87  88  93  96  94  97 100  91  73  61  80  78
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  81  85  85  84  84  73  60  64  78  60  84
  84  83  83  60  83  85  84  83  83  69  72  74  78  64  84  86
  87  89  88  88  87  71  83  74  82  64  60  82  69  84  86  87
  89  90  90  90  89  90  89  86  85  60  60  60  60  60  79  84
  83  82  76  83  83  81  82  67  60  60  60  68  60  79  82  82
  90  92  84  89  90  90  89  87  88  89  90  90  92  91  97  88
  88  76  74  71  73  81  71  76  99 100  87  60  60  63  72  60
  66  72  73  71  70  74  70  61  65  61  60  72  60  60  68  60
  69  60  60  62  60  62  65  65  64  69  90  95  97 101  98  97
%EOF


ENTER LOG DATE (DD/MM/YR) : 16/07/79
ENTER SITE CODE (5 CHARS) : CC210

ENTER USER CODE (4 CHARS) : 4296
 ENTER JOB CODE (3 CHARS) : 281


   DATA LOGGED :16 JULY 1979          DATA ANALYZED : 13 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : CC210
SERIAL NUMBER : 1226                         JOB CODE : 281
      BASELINE : 60 DB                       USER CODE : 4296
DYNAMIC RANGE : 64 DB                       THRESHOLD :  60 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 1:25

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME            LOGMA                        NDOSE
HOUR     CURRENT  CUMULATIVE       CURRENT  CUMULATIVE
   1       86.8      86.8          8.004      8.00
   2      108.9     104.2        172.053    180.06
   3      106.5     105.1        123.087    303.14
   4       70.4     103.0          .830     303.97
   5       80.1     101.5         3.156     307.13
   6       84.4     100.3         5.719     312.85
   7       83.3      99.3         4.967     317.82
   8       87.1      98.5         8.327     326.14
MIN. COMP. =  60 DB              MAX. COMP. = 117 DB
ARITHMETIC MEAN =  78 DB
STD. DEVIATION =  14 DB
VARIANCE =324 DB
```

(13) AMPLITUDE DISTRIBUTION (13)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
182	37.9	60 TO 64
25	5.2	65 TO 69
29	6.0	70 TO 74
14	2.9	75 TO 79
39	8.1	80 TO 84
63	13.1	85 TO 89
52	10.8	90 TO 94
19	4.0	95 TO 99
9	1.9	100 TO 104
5	1.0	105 TO 109
21	4.4	110 TO 114
22	4.6	115 TO 119

TOTAL NO. OF DATA POINTS = 480




13
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
13

(14) (14)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1	26	80	1216	60	64	4	1								
	105		115200	480											
69	61	60	62	60	60	62	63	61	60	60	63	79	79	67	85
92	90	94	93	94	94	97	101	98	98	95	95	97	95	98	89
73	70	61	65	64	60	60	60	65	60	60	63	63	60	63	95
99	105	87	88	89	96	105	83	64	90	95	91	88	86	80	80
76	60	74	79	81	81	81	80	95	98	95	95	96	95	95	95
94	80	80	80	96	97	97	95	94	97	90	92	89	93	90	90
99	92	100	94	94	94	97	89	90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
83	83	83	82	89	81	97	89	90	89	90	91	95	93	93	92
92	91	93	91	92	93	90	91	93	89	[illegible]	[illegible]	[illegible]	[illegible]	105	101
92	92	95	90	92	92	94	92	96	99	96	93	94	96	103	110
110	111	11[illegible]	113	112	112	112	112	111	[illegible]	[illegible]	109	110	110	110	110
110	108	113	112	113	114	113	111	112	113	112	112	111	113	113	112
111	113	113	90	105	113	112	113	113	113	113	113	113	113	110	112
101	110	112	113	113	113	108	90	101	99	95	93	90	89	89	89
74	65	75	85	88	89	93	94	94	92	91	90	89	84	75	76
83	82	81	81	70	79	90	90	90	90	96	103	100	101	100	93
92	92	91	94	77	62	60	60	60	63	69	65	61	61	65	60
64	74	63	60	61	63	64	66	60	60	60	61	66	90	93	94
92	91	93	96	101	103	102	101	101	95	60	60	60	60	60	60
60	60	60	60	60	60	60	91	95	60	60	60	60	60	60	60
60	82	86	85	88	88	84	84	95	86	85	85	87	85	86	87
85	84	86	85	86	87	86	100	104	102	88	89	100	105	106	105
108	108	108	107	107	107	107	107	108	108	108	106	109	100	105	111
111	112	112	112	112	112	112	111	111	111	112	112	111	108	102	103
100	108	112	113	113	113	113	113	112	113	112	111	106	111	104	113
112	114	114	111	110	115	114	114	114	114	114	114	114	115	111	101
95	96	108	110	113	113	115	114	114	115	114	112	113	114	115	115
115	114	111	111	112	112	108	109	112	113	112	112	112	112	112	112
112	110	110	108	96	106	98	75	61	71	61	62	60	59	70	78
88	92	93	96	102	100	84	100	99	94	96	93	85	88	93	100

%EOF

ENTER LOG DATE (DD/MM/YR) : 17/07/79

ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4296

ENTER JOB CODE (3 CHARS) : 281

DATA LOGGED :17 JULY 1979
LOGGER : [illegible]-301/26
SERIAL NUMBER : 1216
BASELINE : 60 DB
DYNAMIC RANGE : 54 DB
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

DATA ANALYZED : 13 SEPT 1979
SITE CODE : CC210
JOB CODE : 281
USER CODE : 4296
THRESHOLD : [illegible]
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

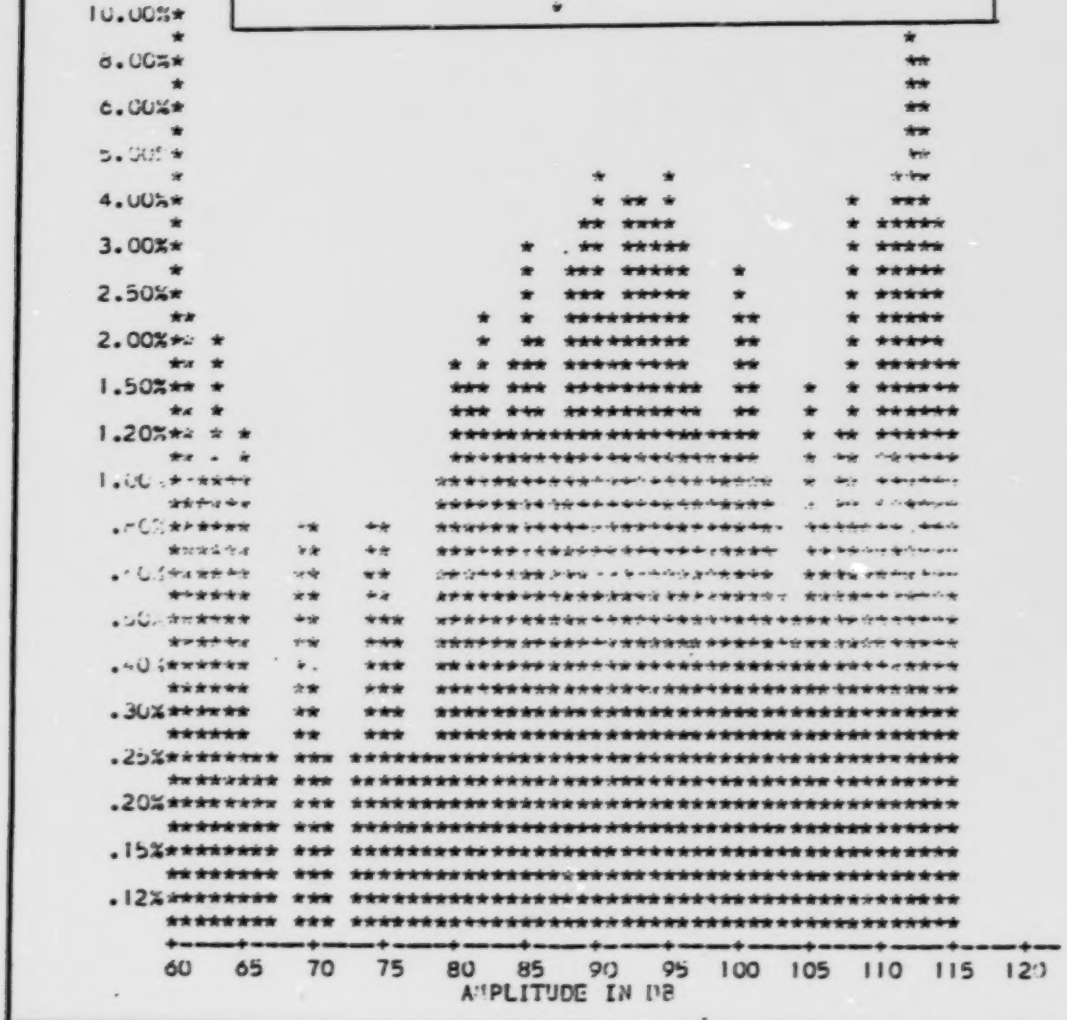
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

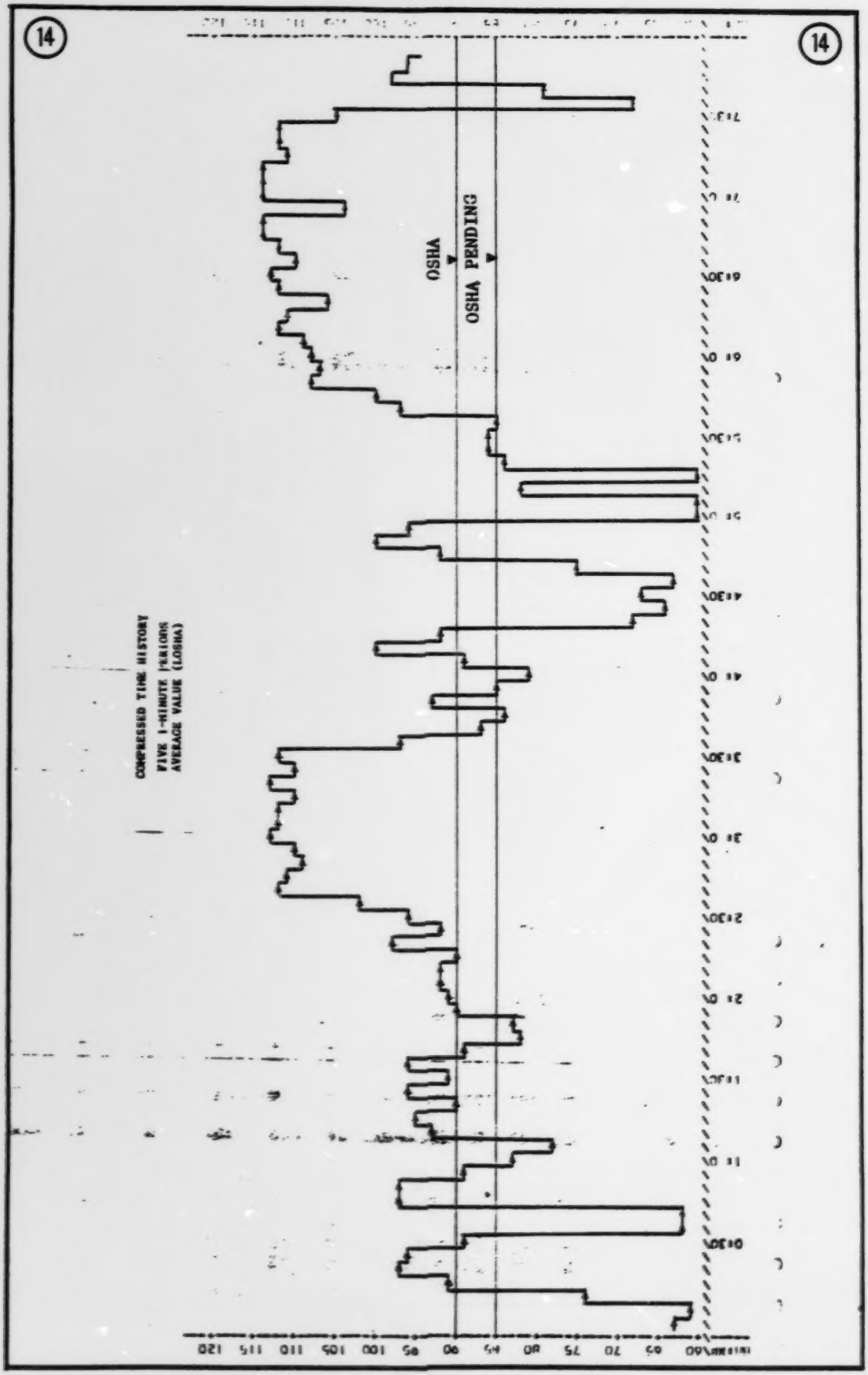
TIME	LOGMA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	90.8	90.8	13.996	14.00
2	90.8	90.8	13.962	27.96
3	104.2	[illegible]	[illegible]	117.05
4	104.2	102.3	156.901	273.95
5	91.4	101.0	15.125	289.07
6	96.8	100.5	32.160	321.23
7	111.0	103.3	230.160	551.40
8	108.6	104.2	163.744	715.14

MIN. COMP. = 60 DB
MAX. COMP. = 115 DB
ARITHMETIC MEAN = 92 DB
STD. DEVIATION = 17 DB
VARIANCE =2[illegible] DB

(14) AMPLITUDE DISTRIBUTION (14)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
67	14.0	60 TO 64
10	2.1	65 TO 69
8	1.7	70 TO 74
11	2.3	75 TO 79
34	7.1	80 TO 84
50	10.4	85 TO 89
73	15.2	90 TO 94
45	9.4	95 TO 99
30	6.3	100 TO 104
33	6.9	105 TO 109
112	23.3	110 TO 114
7	1.5	115 TO 119
TOTAL NO. OF DATA POINTS = 480		




14
14
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
0:30
1 0
1:30
2 0
2:30
3 0
3:30
4 0
4:30
5 0
5:30
6 0
6:30
7 0
7:30
60
65
70
75
80
85
90
95
100
105
110
115
120

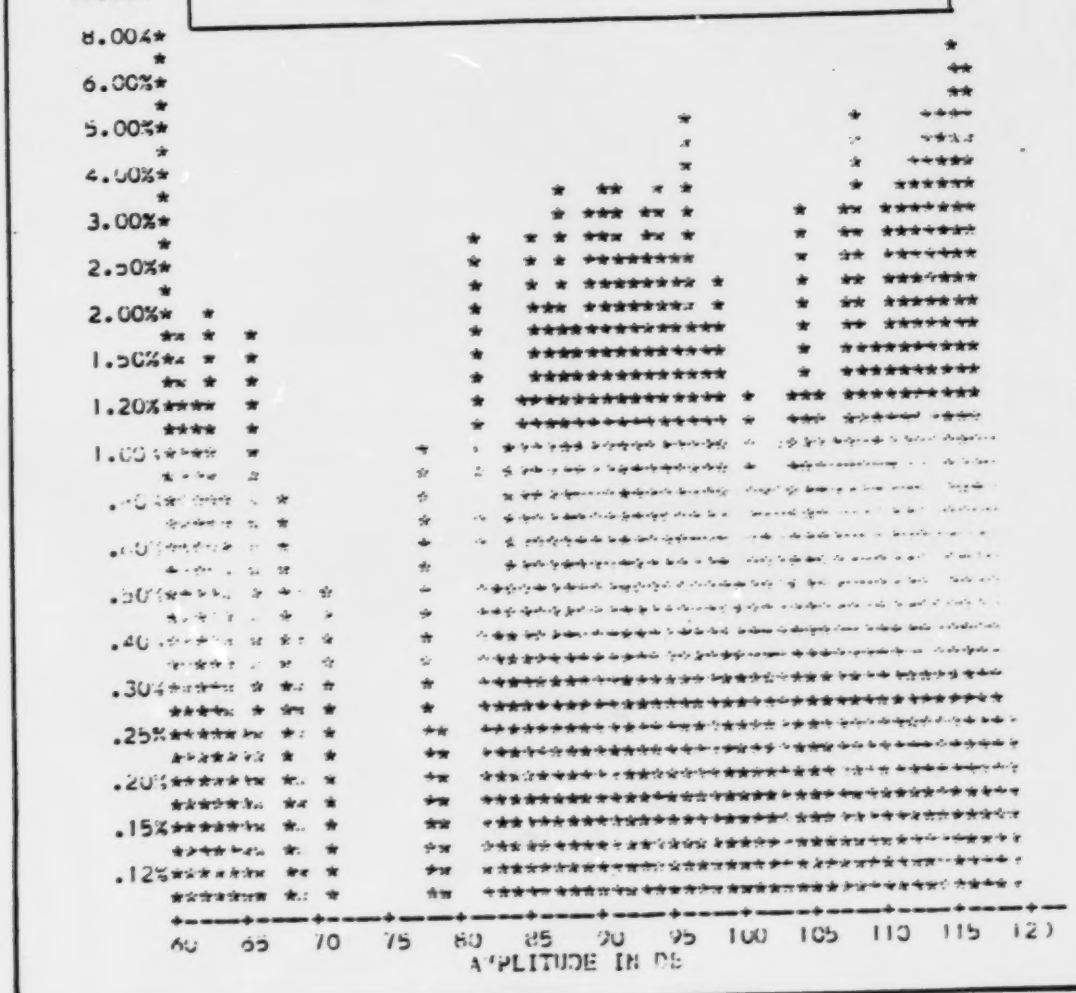
(15)

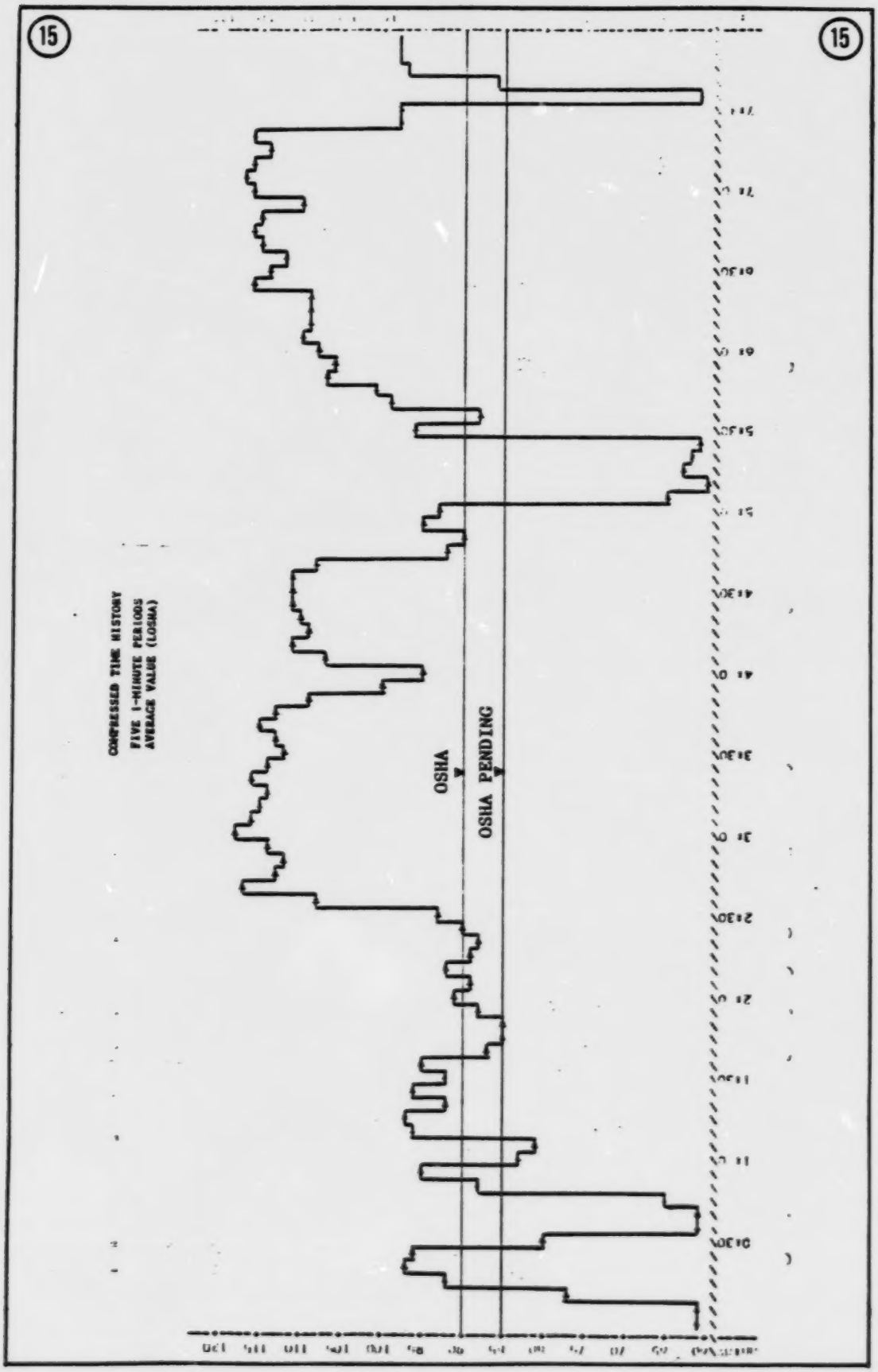
```
 PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
C    1  26  80  121M   60   64    4    1
       120     115200  480
   64  60  60  60  60  60  62  60  62  60  63  78  79  65  93  90
   91  93  92  92  92  97 101  97  97  94  95  97  94  97  90  71
   71  61  62  63  60  62  60  60  60  61  61  60  61  62  66  68
   66  61  61  64  66  94  95  95  95  99  94  88  90  82  82  78
   83  78  82  82  82  82  82  95  99  97  96  96  97  97  97  97
   82  82  82  96  98  98  97  96  97  91  89  91  96  93  91  92
   97  94  92  98  86  86  86  87  88  85  86  84  84  86  85  84
   85  86  85  86  83  90  90  88  89  89  95  90  90  91  88  90
   90  88  88  91  95  95  90  92  91  88  87  88  [illegible]
   88  88  92  88  89  92  91  90  94  94  93  92  92 103 113 113
  115 118 118 117 117 115 116 116 111 101 114 112 112 112 112 112
  111 112 115 117 118 119 115 117 118 117 118 115 115 115 116 115
  117 117  98 107 115 114 116 116 117 116 116 116 116 114 116 105
  114 116 112 115 116 112  92 105 114 114 113 114 115 115 115 114
  115 114 114 114 113 107 112 107 105 108 109 109  96  92  94  95
   97  94  93  95  93 100 108 107 108 109 109 113 112 111 111 110
  110 112  92 106 111 108 111 111 110 111 108 109 112 112 105 104
  112 113 114 113 114 108 108 110 109 108 109 109 102  94  91  95
   89  86  87  91  87  87  95  90  84  93  98  99  94  93  91  97
   69  63  61  66  69  60  60  60  60  60  60  60  60  60  63  68
   60  66  60  63  60  63  60  60  60  60  86  94  99  99  93  92
   91  86  78  85  86  87  99 104 101  87  87  98 105 108 111 106
  105 105 105 105 105 104 105 109 113 106 106 106 103 104 109 113
  110 110 109 109 109 109 109 109 109 109 109 109 109 108 106 108 103
  116 117 117 116 115 114 114 114 115 115 113 108 113 105 115 115
  116 116 113 111 117 116 116 117 116 116 116 117 117 114 104  96
   97 111 113 116 116 117 116 116 117 117 116 116 117 117 117 117
  117 113 113 114 115 111 113 115 117 117 117 117 114 100  98  99
   97  96  95  96 105  99  66  60  60  60  63  60  66  64  68  93
   91  91  95 102 101  89  99 101  97  97  96  82  90  93 102 103
&EOF


C

   ENTER LOG DATE (DD/MM/YR) : 17/07/79
C  ENTER SITE CODE (5 CHARS) : CC210
   ENTER USER CODE (4 CHARS) : 4227
    ENTER JOB CODE (3 CHARS) : 270


C

     DATA LOGGED :17 JULY 1979          DATA ANALYZED : 14 SEPT 1979
          LOGGER : DR-301/26                 SITE CODE : CC210
   SERIAL NUMBER : 121M                      JOB CODE : 270
        BASELINE : 60 DB                     USER CODE : 4227
   DYNAMIC RANGE : 54 DB                     DIMENSION : 40 DB
   SAMPLING RATE : 64/SEC                 TOTAL SAMPLES = 115200
   TEST DURATION = 29 30 0                 STEADY TIME = 21 1830

            TIME HISTORY ANALYSIS

   NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
   ARE BASED ON THE FOLLOWING
   LOG LOSS = 90 DB / 3 DPS
   LOWEST (PUBLISHED) RATE = 5 HZ
   THRESHOLD (CUTOFF) LEVEL = 60 DB
     NUMBER OF COMPUTATIONS = 480
   PERIOD = 1 MINUTES

   TIME          LOGA                        ANTI
   HOUR     CURRENT  CUMULATIVE        CURRENT  CUMULATIVE
      1        88.3       88.3          9.840        9.84
      2        91.5       90.1         15.410       25.25
      3       107.6      100.8        142.235      167.42
      4       113.8      106.7        337.075      504.49
      5       107.2      104.8        136.529      641.42
      6        97.0      105.8         33.204       674.62
      7       112.5      107.3        283.973      958.60
      8       110.1      107.7        203.994     1162.59
   MIN. COMP. = 60 DB                 MAX. COMP. = 119 DB
   ARITHMETIC MEAN = 96 DB
   STD. DEVIATION = 19.91
   VARIANCE =394 DB
```

(15)

15 AMPLITUDE DISTRIBUTION 15

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
55	11.5	60 To 64
13	2.7	65 To 69
2	.4	70 To 74
5	1.0	75 To 79
17	3.5	80 To 84
45	9.4	85 To 89
63	13.1	90 To 94
59	12.3	95 To 99
19	4.0	100 To 104
55	11.5	105 To 109
68	14.2	110 To 114
79	16.5	115 To 119
TOTAL NO. OF DATA POINTS = 480		




15
15
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(16)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1224    60    64     4     1
     11      1152 0   480
  60  67  62  61  68  66  65  64  61  61  68  61  60  60  63  64
  60  61  60  67  60  61  62  60  60  70  68  66  76  73  60  72
  87  89  93  96 100  99  99 100  99  96  98  97  87  75  71  69
  63  60  60  60  60  60  60  60  61  86  60  74  57  79  91  88
  [illegible]
 116 115 114 114 112 117 119 117 [illegible]
 117 117 117 113 110  99  91  92  [illegible]
  85  88  86  96  97  87  86  91  91  95 100 101 [illegible]
 100  96 101  98  89  95  96  94  94  99  94  93  95  99 101  97
  [illegible]
  95  96  95  97  94  95  95  95  98  98  94  93  93  93  93  91
  92  93  93  93  93  93  91  97  96  95  95  92  92  93  93  93
  [illegible]
  93  83  93  91  93  93 100 103 109  95 106 114 116 117 117 117
 117 118 119 117 114 107 114  97 117 119 119 119 119 117 116 116
 [illegible]
  98  99  99  98  98  98  98  98  98  98  98  98  98  98  99  99
  [illegible]
 [illegible]
 120 120 120 120 119 [illegible]
  98  98  98  98  98  98  98  99  91  98  98  98  98 107 117 119
 119 118 118 118 119 119 119 118 [illegible]
 119 120 119 118 117 120 120 119 120 118 120 121 121 120 120 121
 121 121 121 120 121 121 121 121 120 119 [illegible]
 121 121 121 120 [illegible]
 121 114 108 109 106 111 116 115 119 120 107 103 103 103 101 120
 121 121 120 120 122 119 119 119 119 121 119 119 118 [illegible]
  95  94  74  61  60  67  60  64  61  60  63  60  61  60  60  60
  61  61  60  63  61  62  65  78  89  89  89  89  88  88  88  88
EOF
```

(16)

ENTER LOG DATE (DD/MM/YR) = 20/07/79

ENTER SITE CODE (5 CHARS) = 23205
ENTER USER CODE (4 CHARS) = 7786
ENTER JOB CODE (3 CHARS) = 272

DATA LOGGED :20 JULY 1979 — DATA ANALYZED : 14 SEPT 1979
[illegible]

TIME HISTORY ANALYSIS

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

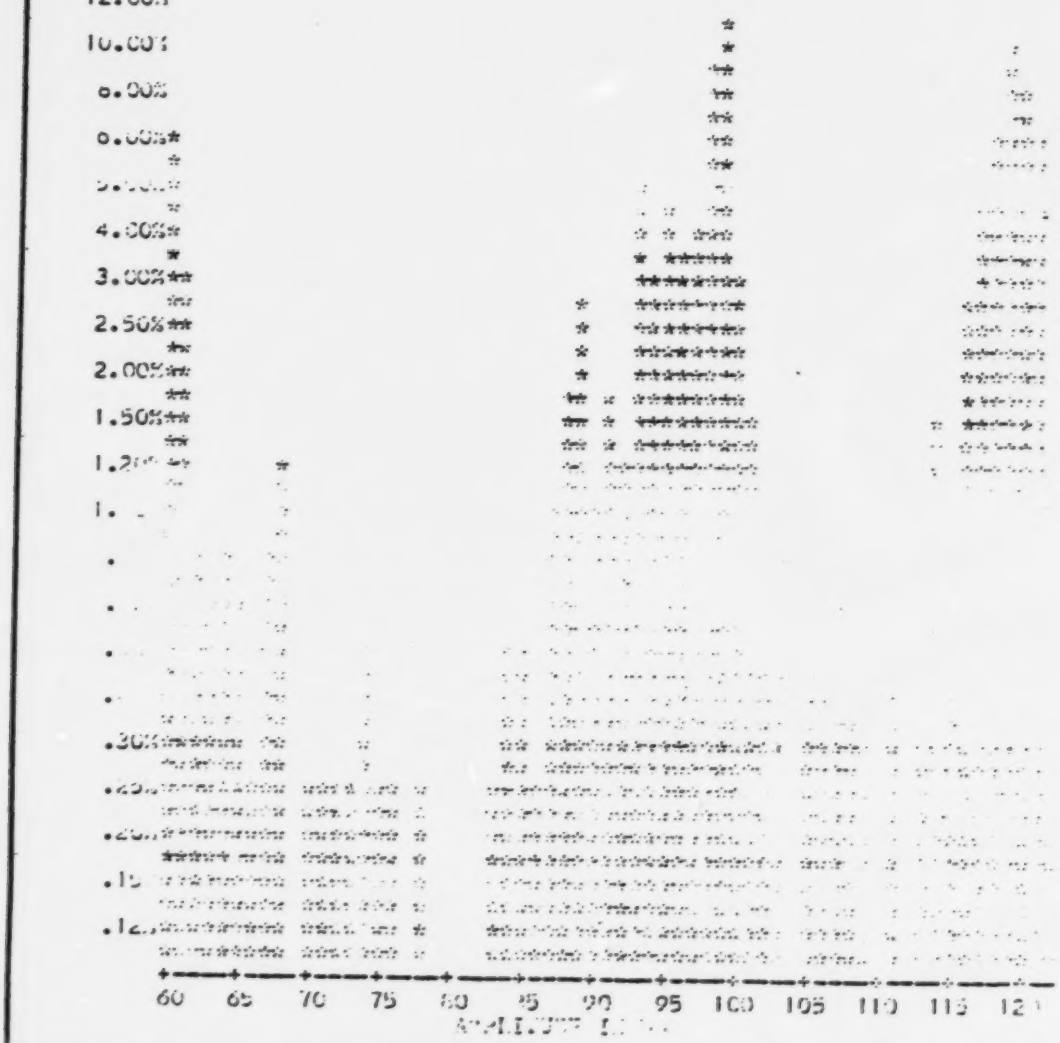
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	95.9	95.9	7.096	7.10
2	112.[illegible]	[illegible]	204.224	[illegible]
3	[illegible]	[illegible]	2[illegible]	354.21
4	109.[illegible]	[illegible]	19[illegible]	527.69
5	104.1	[illegible]	[illegible]	[illegible]
6	115.5	[illegible]	424.[illegible]	1048.29
7	119.6	[illegible]	7[illegible]	1747.13
8	111.4	111.7	261.337	263.47

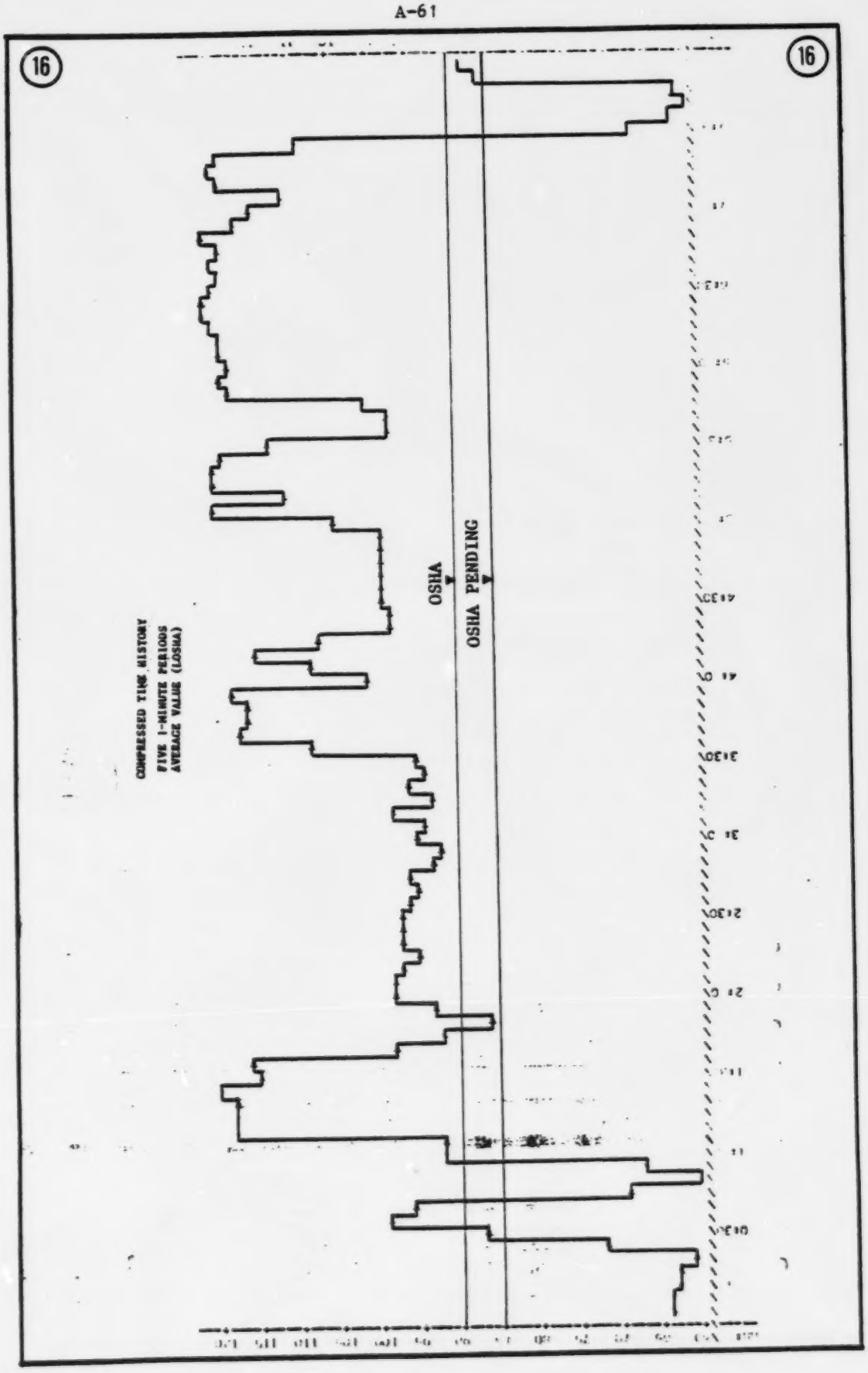
[illegible] = 40 DB — [illegible] = 122 DB
[illegible] = 40 DB
[illegible] = 18
[illegible] =324 DB

FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
48	11.4	60 TO 64
12	2.9	65 TO 69
6	1.4	70 TO 74
3	.7	75 TO 79
3	.7	80 TO 84
25	6.0	85 TO 89
49	11.7	90 TO 94
131	31.2	95 TO 99
24	5.7	100 TO 104
11	2.6	105 TO 109
11	2.6	110 TO 114
137	32.7	115 TO 119

TOTAL NO. OF DATA POINTS = 480



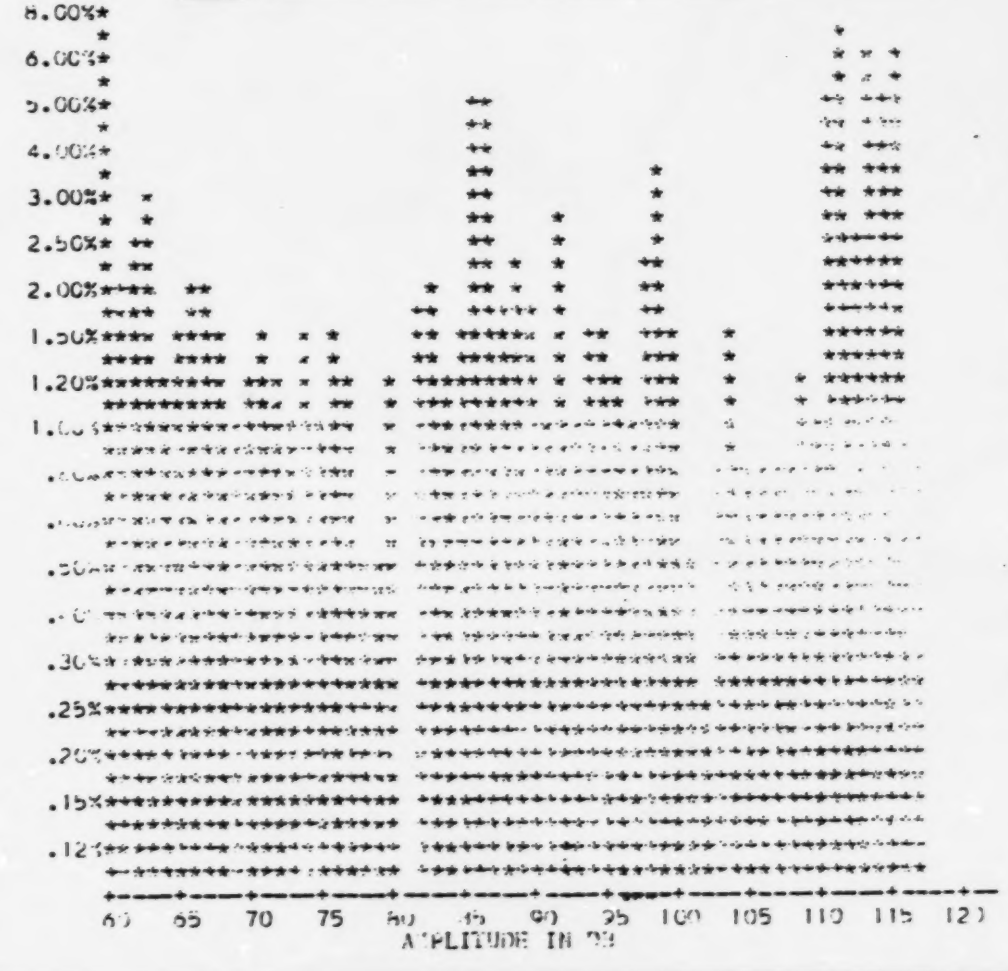

16
16
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

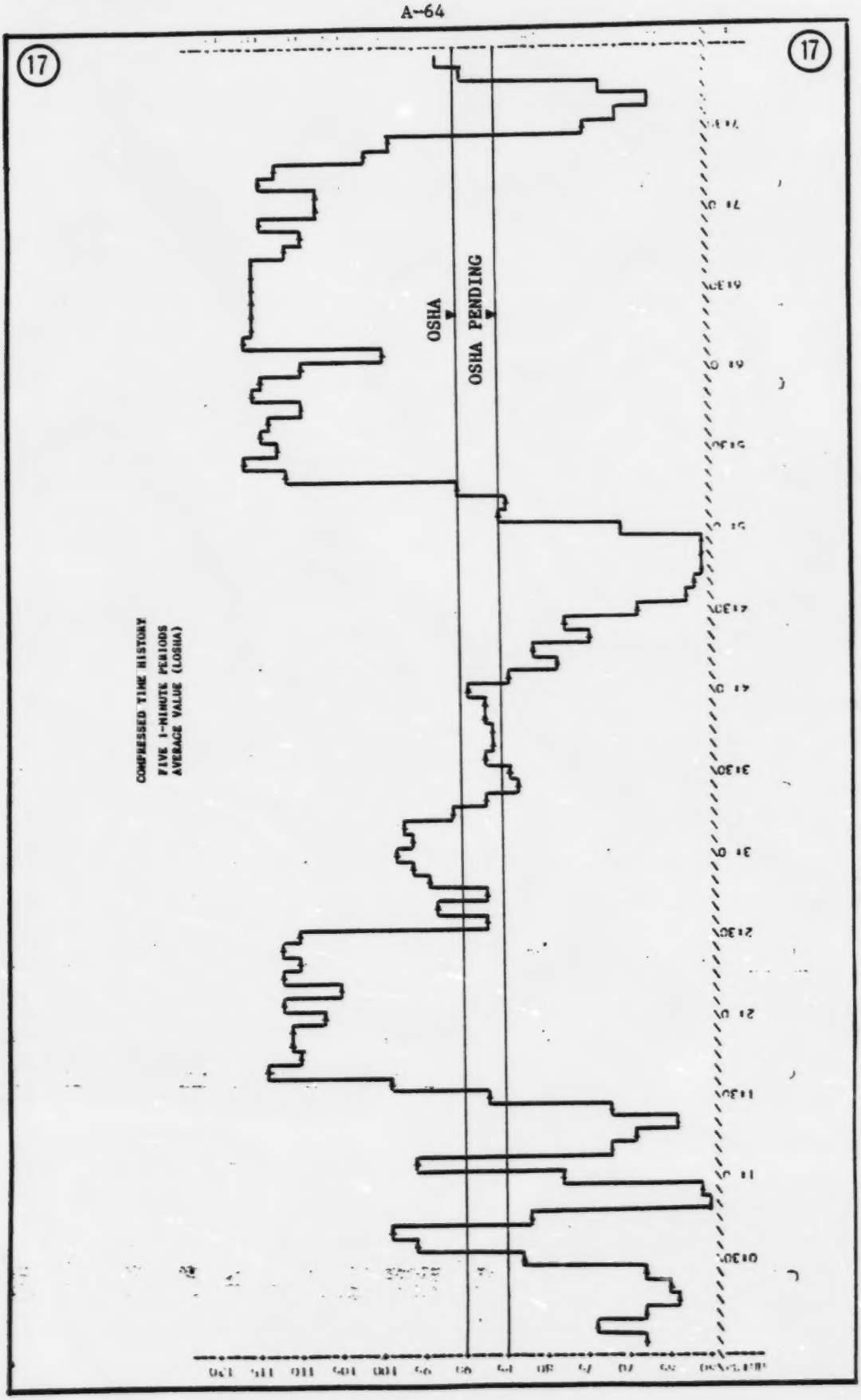
(17) (17)

```
PLACE TAPE IN READER-THEN TYPE A 'SPACE' AND A 'RETURN'

  1  26  80  1220   60   64    4    1
     102     115200  480
  63  62  68  69  72  72  77  71  75  74  76  66  61  64  64  65
  63  67  63  62  66  63  66  68  61  68  60  67  66  73  82  76
  74  86  88  89  92  98  99  99  99  99  98  98  99  90  86  73
  62  64  60  60  60  60  60  60  60  60  61  62  63  71  71  77
  87 100  99  97  89  66  69  74  73  68  72  65  75  66  69  67
  62  62  65  67  61  60  63  60  60  82  87  87  87  87  86  92
  95  92 104 102 112 114 114 114 116 112 111 111 111 106 106 112
 112 111 111 111 111 110 111 110 107  99  98 110 112 112 112 111
 112 111 102  94  90  96 111 113 112 112 112 113 112 111 109 106
 112 113 112 112 112 112 112 112 111 108 104  95  83  82  83  84
  84  94  95  98  85  83  84  86  92  87  89  86  96  92  92 101
  99  96  83  93  95 100  92 100 100  93  97  95  98  94  91  92
  98  96 101  99  86  77  82  93  89  85  91  84  82  89  82  83
  73  76  80  76  84  87  86  87  86  86  87  87  86  86  87  87
  86  88  86  85  86  86  87  86  86  88  87  87  87  87  87  87
  86  87  94  90  79  74  71  86  86  89  83  78  75  71  76  85
  89  60  61  70  77  80  67  66  65  60  60  71  80  85  66  63
  74  70  61  63  60  63  60  63  60  60  61  63  60  60  60  60
  60  60  60  60  62  60  60  60  60  60  60  60  67  62  64  62
  79  72  83  92  88  60  60  60  70  85  93  94  90  88  88  88
  92 100 114 114 115 116 116 116 116 115 115 114 113 103 112 112
 115 114 114 113 113 114 113 113 112 102  98 105 112 114 114 114
 116 116 116 115 115 109 114 114 114 114 108  91  92  92  89  91
  99 107 114 116 117 117 116 115 115 116 116 115 114 115 115 116
 115 114 116 116 115 116 116 116 116 114 109 111 115 116 116 115
 116 117 115 112 115 114 114 111 108  97 103  99 106 112 115 116
 115 114 113 113 111 110  99 104 104 107 104  90 103 114 111 111
 115 115 115 112 111 112 112 112 109 105  87  83  78  82  95 106
  98  88  80  68  61  72  76  74  67  63  62  75  70  60  68  63
  65  69  67  64  80  70  60  65  77  94  97  96  92  90  90  89
%EOF


ENTER LOG DATE (DD/MM/YR) : 20/07/79

ENTER SITE CODE (5 CHARS) : 26055
ENTER USER CODE (4 CHARS) : 2371

 ENTER JOB CODE (3 CHARS) : 281


   DATA LOGGED :20 JULY 1979          DATA ANALYZED : 17 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : 26055
SERIAL NUMBER : 1220                        JOB CODE : 281
      BASELINE : 60 DB                      USER CODE : 2371
DYNAMIC RANGE : 64 DB                      THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =  8: 0: 0                  STANDBY TIME =  0: 0:25


          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME            LOSHA                        DOSE
HOUR     CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1       85.9       85.9         7.096       7.10
   2      104.3       99.8        90.669      97.76
   3      106.7      102.9       126.325     224.59
   4       90.8      101.3        14.034     238.62
   5       77.6       99.7         2.255     240.88
   6      110.4      103.0       212.049     452.93
   7      113.5      105.7       323.261     776.19
   8      103.5      105.5        81.425     857.61
MIN. COMP. =  60 DB              MAX. COMP. = 117 DB
ARITHMETIC MEAN =  89 DB
STD. DEVIATION =  19 DB
VARIANCE =361 DB
```

(17) AMPLITUDE DISTRIBUTION (17)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
75	15.6	60 TO 64
32	6.7	65 TO 69
26	5.4	70 TO 74
19	4.0	75 TO 79
26	5.4	80 TO 84
63	13.1	85 TO 89
32	6.7	90 TO 94
38	7.9	95 TO 99
20	4.2	100 TO 104
16	3.3	105 TO 109
84	17.5	110 TO 114
49	10.2	115 TO 119
TOTAL NO. OF DATA POINTS = 480		



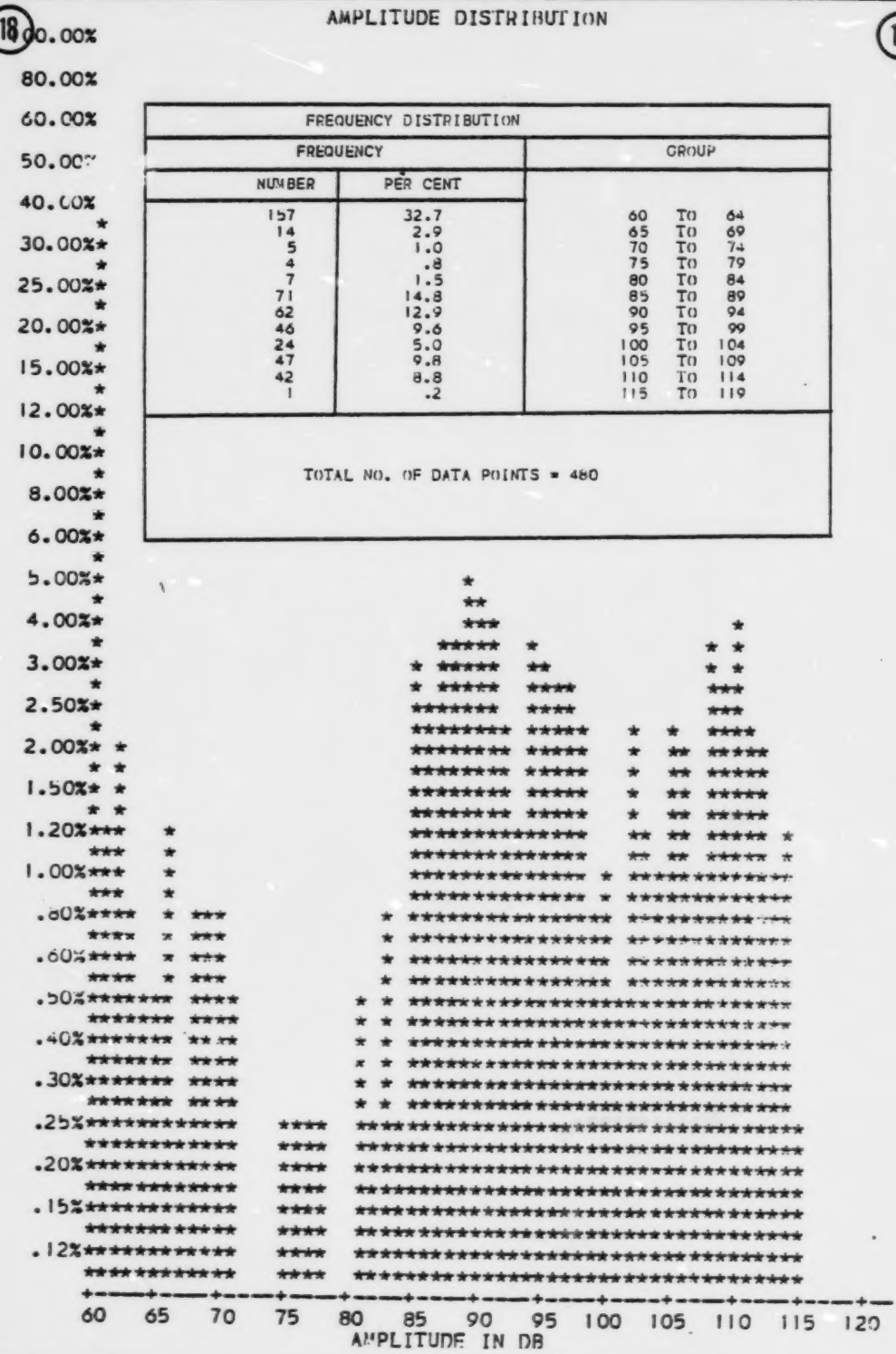

17
17
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(18)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

  1  26  80  1220   60   64    4    1
     71     115200  480
  66  60  60  60  60  60  60  60  68  60  60  60  60  60  60  62
  64  66  62  76  63  63  68  60  60  66  60  65  75  68  62  60
  71  67  70  60  65  69  91  83  83  81  78  88  86  85  91  85
  85  82  92  94  95  95  85  93  89  95  97  94  95  91  94  92
  81  61  62  60  60  60  60  60  60  60  60  70  60  69  69  60
  60  92 100  91  90  92  85  95  87  99  96  89  94 101 111 111
 111 112 119 111 112 111 111 110 110 109 109 105 110 106 105 104
 105 109 108 108 106 103  91  94  97  84  90  89  86  87  85  85
  89  91  90  90  85  88  86  85  90  90  88  90  89  88  89  86
  85  85  95  96  89  95  98  87  87  97  86  88  87  93  93  90
  99  89  96  89  95  89  89 100  95  89 102 110 111 104  97  95
  93  86 114 113 115 114 108 110 112 110 112 114 114 114 108 110
 109 108 105 103 110 110 110 109 110 113 113 112 111 110 105 111
 112 112 110 108 110 113 112 108 106 104 102  96  87  87  97  96
  94  90  87  86  93  90  97  94  89  90  99  91  94  90  98  91
  91  90  89  87  88  90  92  92  90  94  89  96  97  91  90  88
  89  96  91 101  89  88  84  60  60  60  60  66  60  60  60  60
  60  60  70  62  60  61  60  60  60  62  62  61  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  61  60  60  61  60  60  60  60
  60  60  60  60  62  60  60  60  60  60  66  60  60  60  60  60
  98  88  88 106 107  98 105 109 108 106  97 102  96  88  86  87
  88  87  88  89  89  91  86  87 102 107 108 107 105 103  98 105
 103 102 102 100  98 102 106 108 105 103 102 100  97 106 109 109
 108 108 110 108 108 109 108 109 109 107 106 104 102  91  91  88
  94  94  86  90  90  87  95  95  94  94  92  92  83  87  96  91
  96  98  91  64  71  92  96  98  99  97  98  97  77  63  85  94
*EOF


ENTER LOG DATE (DD/MM/YR) : 14/08/79
ENTER SITE CODE (5 CHARS) : 35950

ENTER USER CODE (4 CHARS) : 7653

 ENTER JOB CODE (3 CHARS) : JDO


    DATA LOGGED :14  AUG 1979          DATA ANALYZED : 21 SEPT 1979
        LOGGER : 08-301/26                 SITE CODE : 35950
SERIAL NUMBER : 1220                       JOB CODE : JDO
      BASELINE : 60 DB                    USER CODE : 7653
DYNAMIC RANGE : 64 DB                     THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0:17

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 Db / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 Db
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          OSHA                    NOISE
HOUR     CURRENT  CUMULATIVE     CURRENT  CUMULATIVE
   1       83.5      83.5         5.052      5.05
   2      103.2      98.6        77.634     82.69
   3       97.3      98.2        34.470    117.16
   4      107.7     102.0       146.215    263.37
   5       95.3     100.6         6.494    269.87
   6       60.0      99.2          .195    270.06
   7       97.7      99.0        36.189    306.25
   8      101.5      99.4        61.433    367.68
MIN. COMP. =  60 DB              MAX. COMP. = 115 DB
ARITHMETIC MEAN =  83 DB
STD. DEVIATION =  19 DB
VARIANCE =361 DB
```

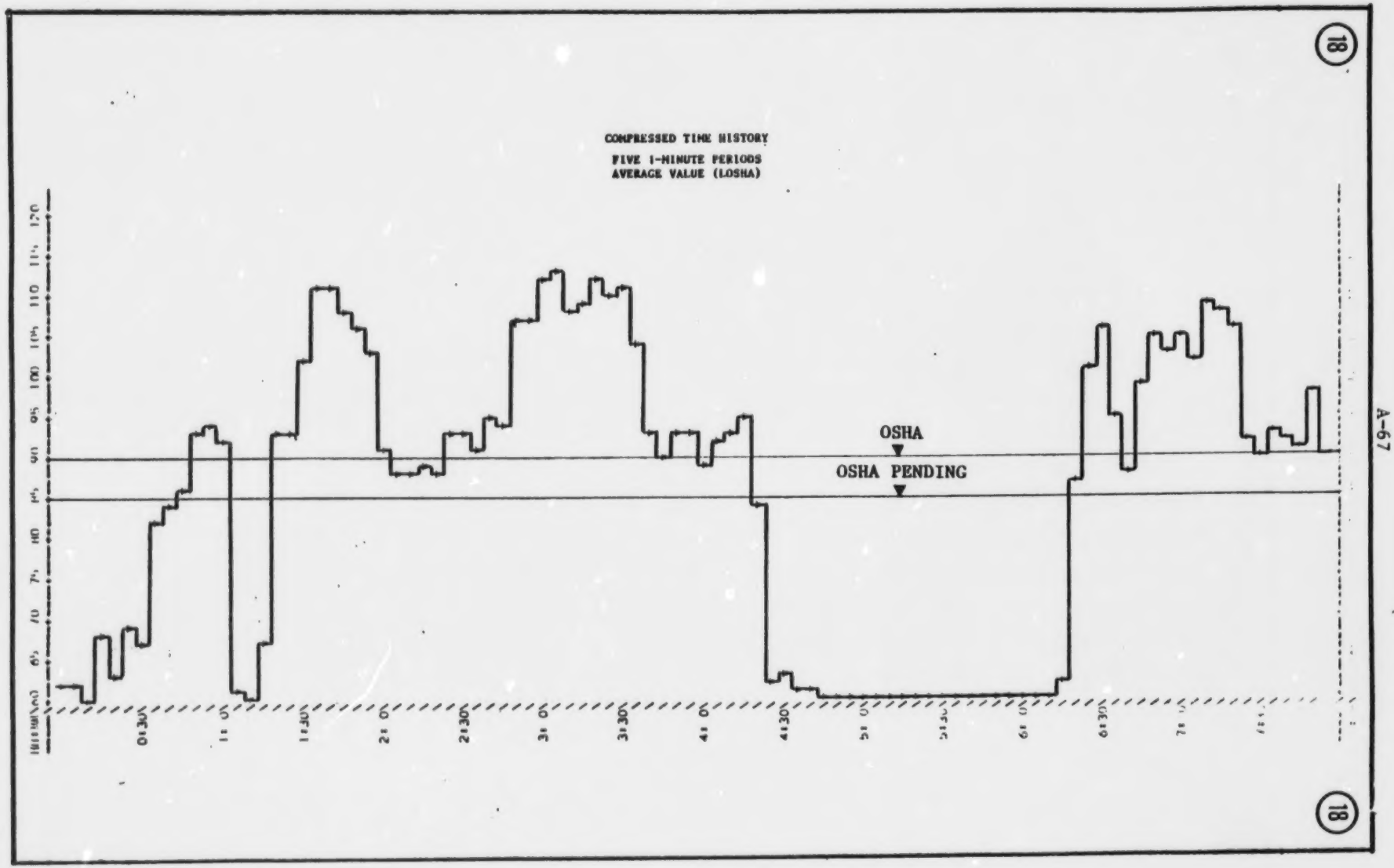
(18)

(18) AMPLITUDE DISTRIBUTION (18)



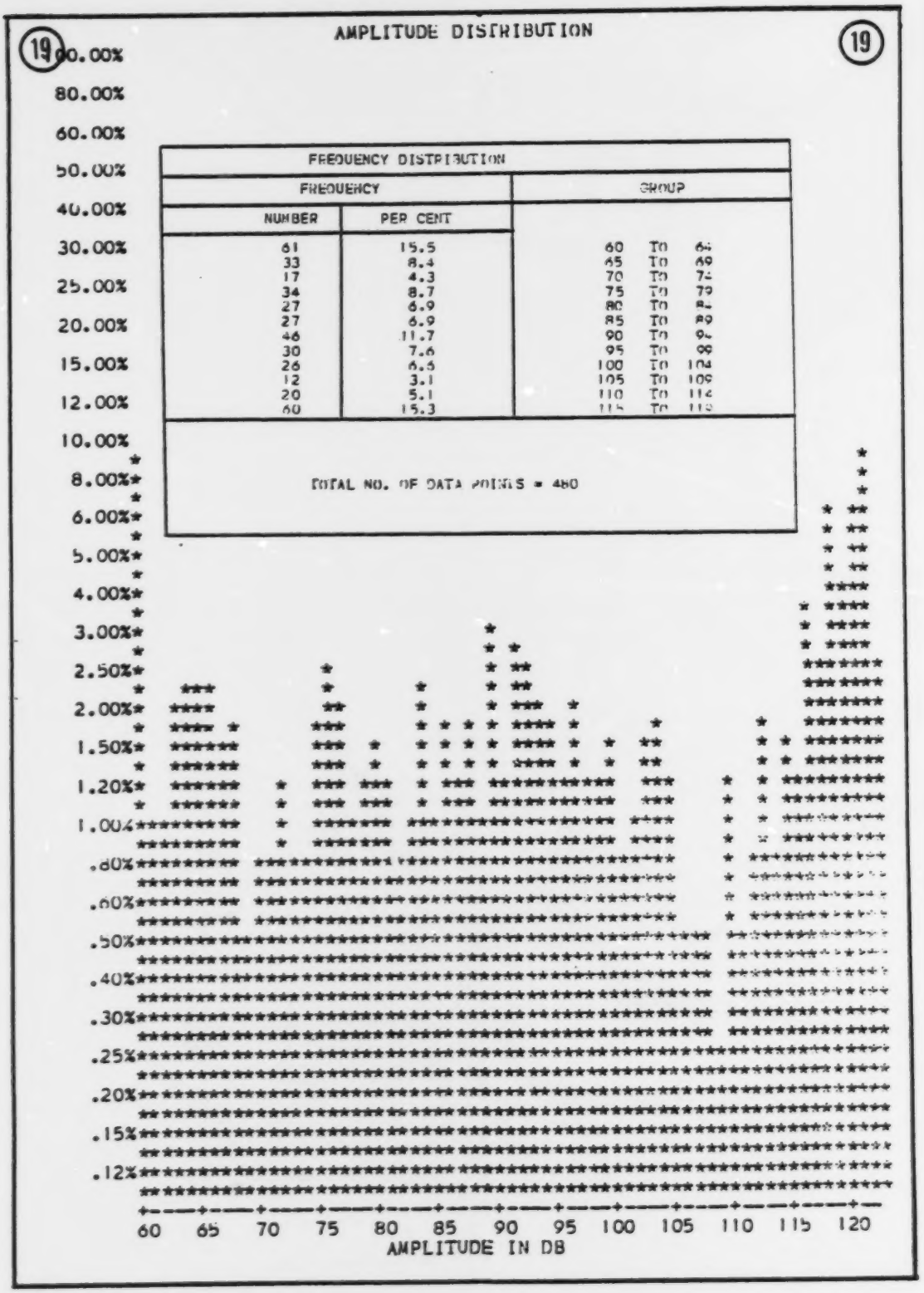
FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
157	32.7	60 TO 64
14	2.9	65 TO 69
5	1.0	70 TO 74
4	.8	75 TO 79
7	1.5	80 TO 84
71	14.8	85 TO 89
62	12.9	90 TO 94
46	9.6	95 TO 99
24	5.0	100 TO 104
47	9.8	105 TO 109
42	8.8	110 TO 114
1	.2	115 TO 119

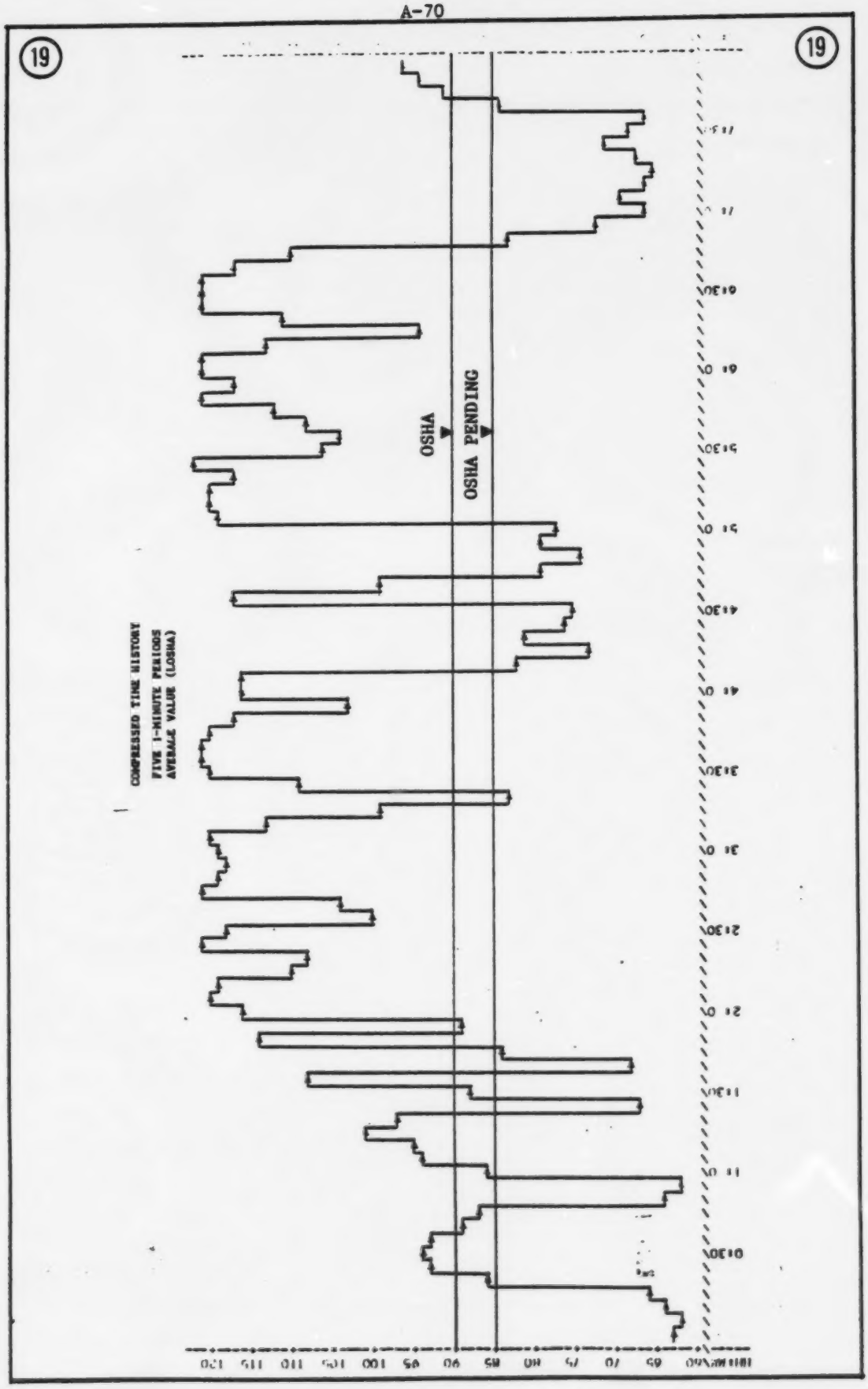
TOTAL NO. OF DATA POINTS = 480


18
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
18

(19) (19)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1220   60   64    4    1
     655     115200  480
  65  60  64  61  63  60  60  60  60  66  60  66  66  62  65  64
  73  62  64  61  72  85  80  90  91  90  88  92  98  93  97  90
  91  94  94  93  93  98  90  87  82  88  92  86  93  93  90  88
  60  62  68  66  65  60  60  60  60  60  66  64  65  67  63  76
  97  95  94  93  95  94  90  90  94  91 102 102 104 103  99  90
  96 105  94  92  71  60  67  65  66  72  65  66  60  73  99 113
 114 103  77  70  74  72  62  61  63  81  79  86  76  90 117 118
 117  99  93  92  92  90  79  83  84 109 113 121 121 121 120 119
 119 120 121 119 117 119 116 115 110 115  94  87  87  89  88  97
 119 121 119 121 122 122 119 119 118 116 117 110  89  90  92  83
  97 107 111  80  91 117 122 122 122 121 119 114 116 119 122 121
 120 118 108 117 117 117 119 121 119 121 118 119 122 118 118 114
 115 100  97  96  88 102 103  98  85  84  81  82  84  83 112 113
 113  79 116 119 119 122 123 121 121 120 123 122 120 119 122 122
 122 121 115 117 122 122 122 122 117  99 105  80  97 101 104 110
  92 106 117 120 120 119 122 117  76  89  86  84  74  76  84  74
  65  61  81  63  60  68  71  87  86  63  75  67  76  84  77  64
  80  77  60  60  75 117 123 121 104 100 103  89  85  84  77  75
  78  79  71  68  68  80  77  76  80  79  82  76  78  75  77  76
  77  90 118 119 122 123 123 123 121 115 100 104 119 122 123 123
 123 119 111  96 113 119 123 122 122 122 116 100 104  75  76 102
 103 104 104 105 107 105 105 112 110  83 117 118 106  95 120 122
 122 120 119 112  93 119 118 121 122 121 120 122 122 122 121 119
 122 122 121 101 113  95 108  84  96  86  96  98 101  95 103 110
 120 120 120 122 122 121 121 120 122 122 120 121 122 121 121 120
 113 100 118 121 121 117 115  95 100  77  85  87  84  81  69  64
  68  65  81  63  60  60  60  64  73  72  66  66  68  69  70  68
  67  60  60  60  65  60  60  72  76  60  60  60  60  60  60  75
  78  60  60  60  63  75  67  70  64  60  63  67  60  64  78  88
  92  93  92  92  86  88  94  91  99  92  86  95  97  98  93  97
%EOF


ENTER LOG DATE (DD/MM/YR) : 20/08/79.

ENTER SITE CODE (5 CHARS) : 35950
ENTER USER CODE (4 CHARS) : 4673
 ENTER JOB CODE (3 CHARS) : 170


   DATA LOGGED :20  AUG 1979          DATA ANALYZED : 25 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 35950
SERIAL NUMBER : 1220                        JOB CODE : 170
      BASELINE : 60 DB                     USER CODE : 4673
DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 [illegible]
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 2:43

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = [illegible] DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                      ADOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      86.2      86.2          7.334      7.33
   2     100.7      96.6         55.248     62.58
   3     116.7     109.6        508.047    570.63
   4     116.8     112.2        510.331   1080.96
   5     106.6     111.4        125.655   1206.61
   6     116.4     112.5        486.676   1693.29
   7     116.6     113.2        501.579   2194.87
   8      84.9     112.3          6.170   2201.04
MIN. COMP. =  60 DB            MAX. COMP. = 123 DB
ARITHMETIC MEAN =  94 DB
STD. DEVIATION =  22 DB
VARIANCE =484 DB
```


AMPLITUDE DISTRIBUTION
19
19
FREQUENCY DISTRIBUTION
FREQUENCY
NUMBER
PER CENT
GROUP
61 15.5 60 TO 64
33 8.4 65 TO 69
17 4.3 70 TO 74
34 8.7 75 TO 79
27 6.9 80 TO 84
27 6.9 85 TO 89
46 11.7 90 TO 94
30 7.6 95 TO 99
26 6.6 100 TO 104
12 3.1 105 TO 109
20 5.1 110 TO 114
60 15.3 115 TO 119
TOTAL NO. OF DATA POINTS = 480
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


19
19
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
7:0
7:30
120
115
110
105
100
95
90
85
80
75
70
65
60

(20)

```
PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
  1  26  80  1214    60    64     4     1
     119     115200  480
  66  63  65  60  70  60  67  61  61  62  64  68  72  60  65  60
  60  67  64  61  72  79  84  87  78  88  93  97  98  97  94  77
  60  60  60  60  60  60  61  62  60  69  62  60  60  60  67  75
  75  74  74  78  75  74  70  77  75  86  77  77  77  81  76  76
  77  73  65  74  71  71  69  74  72  92  93  93  97  97  94  97
  97  93  96  94  95  94  95  97  89  94  90  93  83  88  82  87
  82  72  68  71  70  70  73  69  69  85  87  89  86  86  92  91
  86  81  85  84  97  96  98  98  98  98  97  86  82  85  81  91  92
  88  85  78  96  99  98  92  83  82  82  82  82  84  85  84  82
  82  82  82  82  82  82  82  84  84  85  85  85  87  88  81  84
  87  83  84  84  87  88  88  87  95  88  88  88  88  78  71  87
  86  86  86  88  88  88  89  88  87  89  89  90  90  89  86  85
  89  89  88  88  86  85  86  85  85  85  85  85  87  86  88  86
  85  86  85  84  86  87  88  87  89  88  86  87  87  88  87  86  85
  86  86  87  85  85  96  93  81  80  91  91  60  74  74  62  60
  61  61  62  62  60  60  60  60  60  60  62  60  68  70  66  60
  60  60  61  67  71  75  72  65  76  69  70  68  62  70  65  75
  60  60  67  69  70  62  64  68  82  98 104  90  85  86  96 106
  98  64  67  65  81  88  91  91  99  99 101  93  90  97  99  99
%EOF
```

(20)

```
ENTER LOG DATE (DD/MM/YR) = 14/09/79
ENTER SITE CODE (5 CHARS) : 42954

ENTER USER CODE (4 CHARS) : 4296
 ENTER JOB CODE (3 CHARS) : C80
```

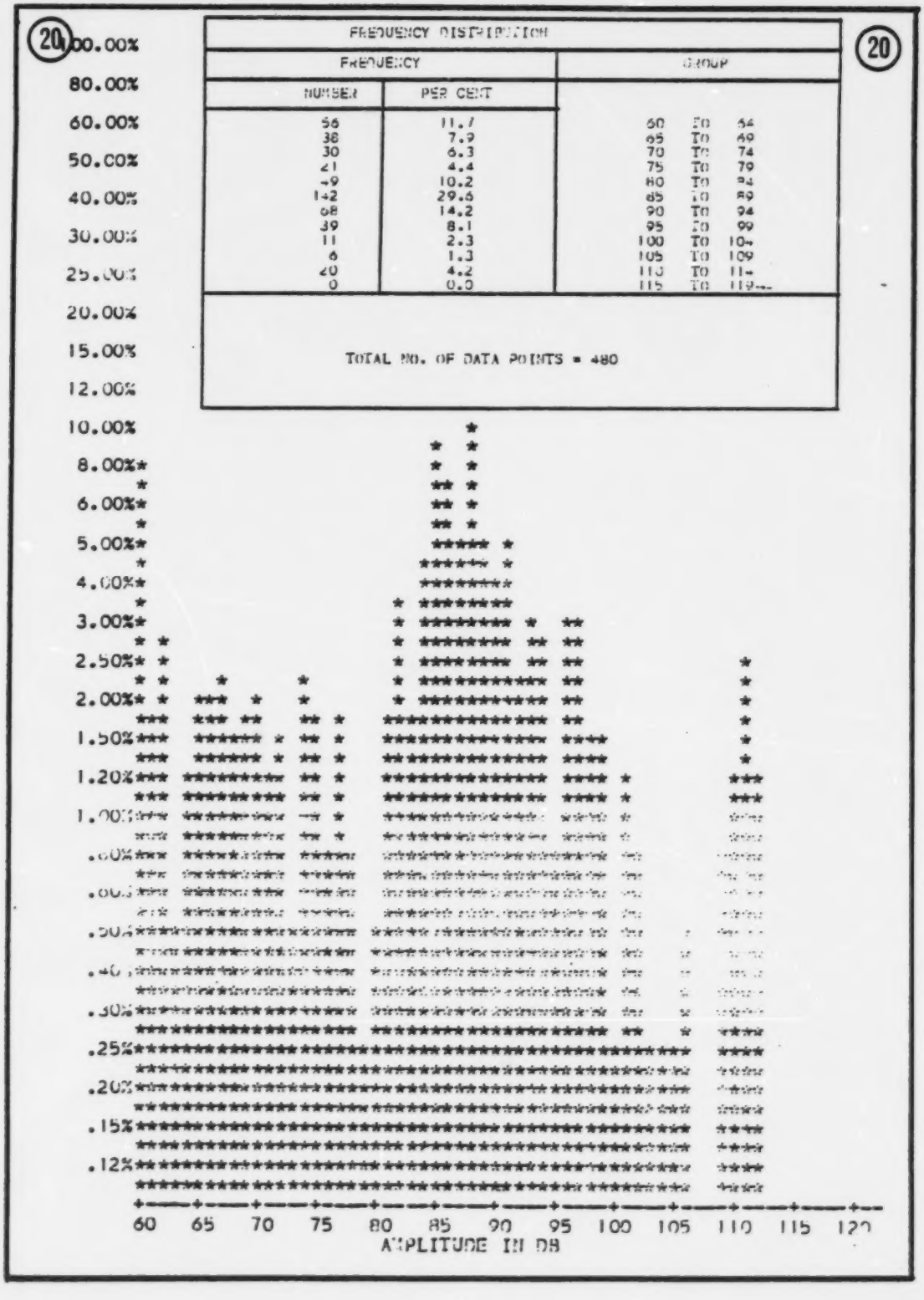
```
   DATA LOGGED :14 SEPT 1979          DATA ANALYZED : 27 SEPT 1979
        LOGGER : DH-301/26                 SITE CODE : 42954
SERIAL NUMBER : 1214                        JOB CODE : C80
      BASELINE : 60 DB                    USER CODE : 4296
DYNAMIC RANGE : 96 DB                     THRESHOLD : 60 DB
 SAMPLING RATE : 4/SEC                TOTAL SAMPLES = 115200
 TEST DURATION = 480 MIN              START TIME = 08:00
```

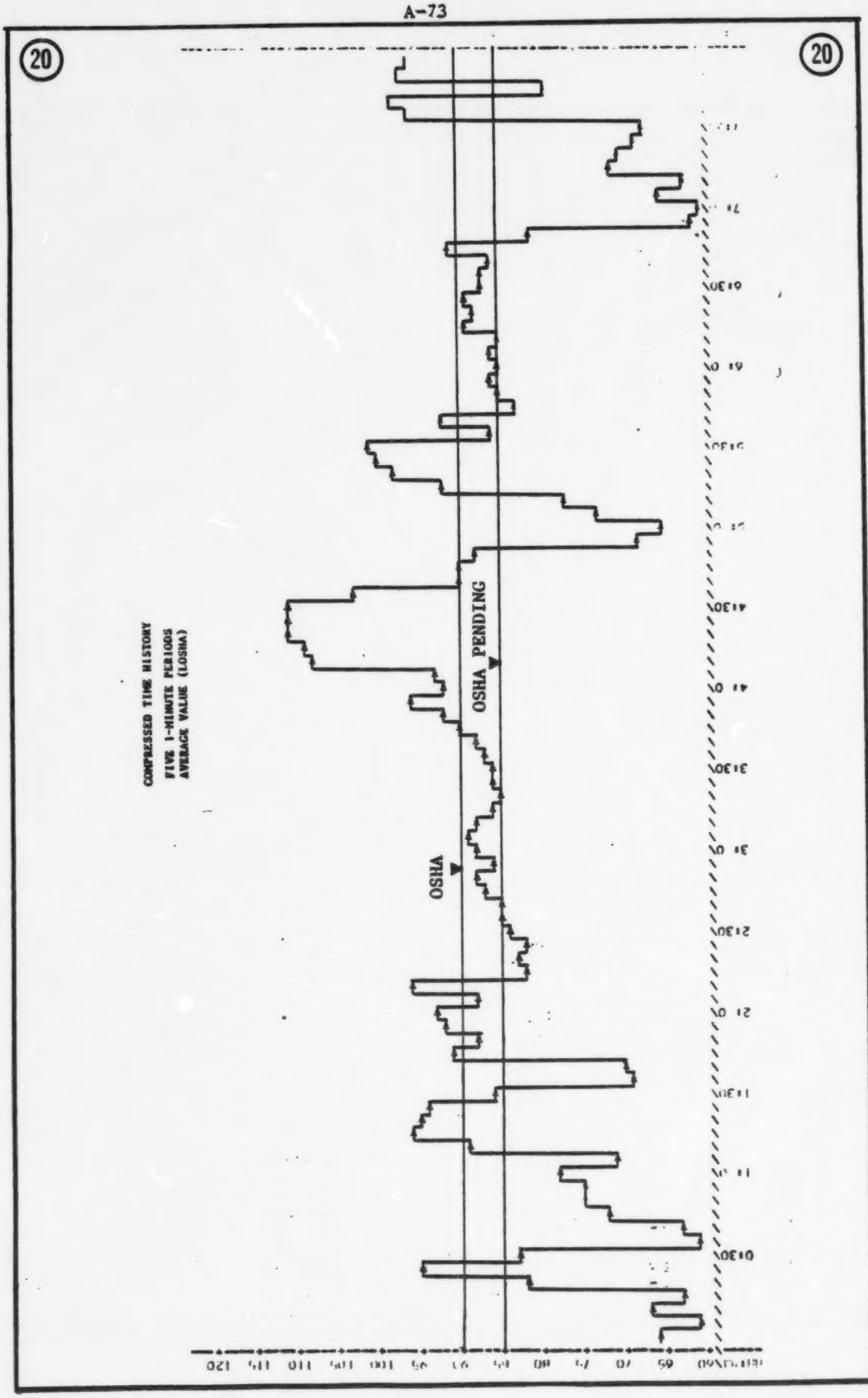
TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
USE BASELINE OF 60 DB FOR NOISE VALUES
100% DOSE = 90 DB / 480 MIN
EACH 5 DB (DOUBLING) RATE = 5 DB
CRITERION (CRITERIA) LEVEL = 90 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES
```

HOUR	LEVEL CURRENT	LEVEL CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	80.7	80.7	3.454	3.45
2	89.5	86.4	11.419	15.07
3	87.9	87.9	9.394	24.46
4	89.1	87.5	11.075	35.54
5	104.7	95.4	96.240	131.73
6	92.2	94.9	17.041	148.77
7	88.4	93.2	7.619	156.39
8	89.4	94.7	11.575	167.97

MIN. COMP. = 60 DB MAX. COMP. = 114 DB
ARITHMETIC MEAN = 83 DB
STD. DEVIATION = 13
VARIANCE =169 DB


20
20
FREQUENCY DISTRIBUTION
FREQUENCY
GROUP
NUMBER
PER CENT
56 11.7 60 TO 64
38 7.9 65 TO 69
30 6.3 70 TO 74
21 4.4 75 TO 79
49 10.2 80 TO 84
142 29.6 85 TO 89
68 14.2 90 TO 94
39 8.1 95 TO 99
11 2.3 100 TO 104
6 1.3 105 TO 109
20 4.2 110 TO 114
0 0.0 115 TO 119
TOTAL NO. OF DATA POINTS = 480
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


20
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
65 70 75 80 85 90 95 100 105 110 115 120

(21)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1215      60    64     4     1
     198     115200   480
  63  61  60  61  60  66  62  63  60  65  60  60  68  69  60  66
  60  60  66  60  63  74  76  96  83  76  63  74  65  68  63  60
  60  60  60  60  60  60  60  60  60  65  61  60  60  60  60  70
  75  73  74  75  78  76  74  72  78  73  72  78  74  76  80  77
  70  75  70  67  74  73  73  71  71  73  71  91  73  97  95  84
  98  96  96  97  95  96  96  97  97  92  92  90  92  76  54  67
  63  66  60  73  69  70  74  70  71  71  73  66  65  60  62  60
  60  66  63  60  60  60  60  60  60  60  60  60  60  60  60  60
  61  60  64  66  63  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  56  65  60  60
  60  60  60  60  60  60  60  64  68  66  60  60  68  60  60  60
  60  60  60  61  64  60  60  60  60  60  60  60  60  60  60  60
  62  60  60  61  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  62  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  70  60  60  60  60  62  64  69  65  60  61  62  61  60
  61  64  60  60  64  60  61  60  64  60  63  60  61  60  60  63
  66  68  69  64  71  71  73  74  68  60  63  60  66  64  62  71
  65  61  79  65  74  72  73  69  73  66  76  67  60  69  75  60
  60  60  60  68  71  70  71  64  61  62  60  64  60  60  64  60
  60  61  60  60  60  60  60  60  63  71  65  60  70  60  60  60
  61  71  64  60  60  60  60  61  65  60  61  61  62  60  60  60
  61  66  60  60  60  60  65  60  60  63  60  66  60  62  62  60
  60  60  75  71  60  60  61  60  60  81  62  60  60  60  60  60
  60  60  60  61  60  60  61  73  72  69  63  69  63  60  69  64
  65  60  60  60  62  62  60  60  60  60  60  60  60  60  63  60  60
  61  63  60  60  60  60  60  60  60  60  60  60  60  60  68  63  60
  61  60  60  67  60  68  63  60  68  63  60  68  60  61  63  67
  77  60  65  61  69  63  66  67  67  66  69  71  74  75  78  75
  75  68  63  79  74  82  85  84  96  96  97  87  87  94  95  95
EOF


ENTER LOG DATE (DD/MM/YR) : 14/09/79
ENTER SITE CODE (5 CHARS) : 42954
ENTER USER CODE (4 CHARS) : 4227
 ENTER JOB CODE (3 CHARS) : C80


   DATA LOGGED :14 SEPT 1979          DATA ANALYZED : 27 SEPT 1979
        LOGGER : DL-301/26                 SITE CODE : 42954
 SERIAL NUMBER : 1215                       JOB CODE : C80
     CABLING   : 60 DB                     USER CODE : 4227
 DYNAMIC RANGE : 64 DB                     DISPLAY   : [illegible]
 SAMPLING RATE : 4/SEC                     TOTAL SAMPLES = 115200
 TEST DURATION = 480 SECONDS               STARTING TIME = [illegible]

          TIME HISTORY ANALYSIS

 [illegible] EXPONENTIAL TIME WEIGHTING (E.T.W.) CALCULATIONS
 [illegible] BASED ON THE FOLLOWING
 TIME CONSTANT = 0.125
 INCREMENT (SAMPLING) RATE = [illegible]
 [illegible] (DATA) LEVEL = [illegible]
  NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

 TIME          TOTAL                        TIME
 MIN     CURRENT   CUMULATIVE        CURRENT   CUMULATIVE
   1       70.4        70.4           .824        .82
   2       87.4        83.0          8.692       9.52
   3       81.2        [illegible]    .833       [illegible]
   4       80.2        [illegible]    .203       [illegible]
   5       [illegible] 77.1           .502       10.45
   6       83.8        78.0           .330       10.78
   7       84.5        [illegible]    .365       11.14
   8       81.3        [illegible]   3.723       14.87
MIN. COMP. = 60 DB                  MAX. COMP. = 98 DB
ARITHMETIC MEAN = 85 DB
STD. DEVIATION = [illegible]
[illegible] CF = 31 DB
```

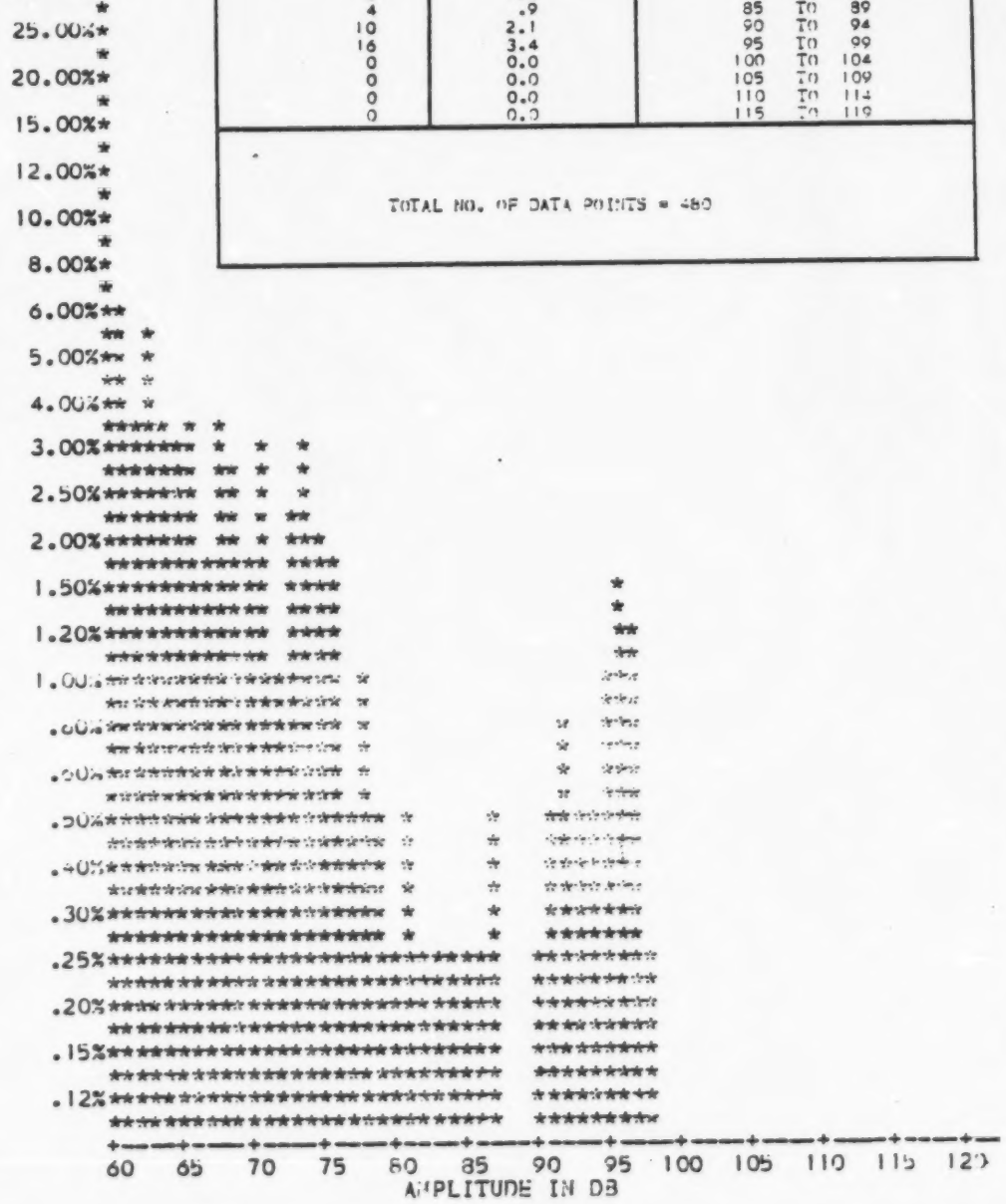
(21)

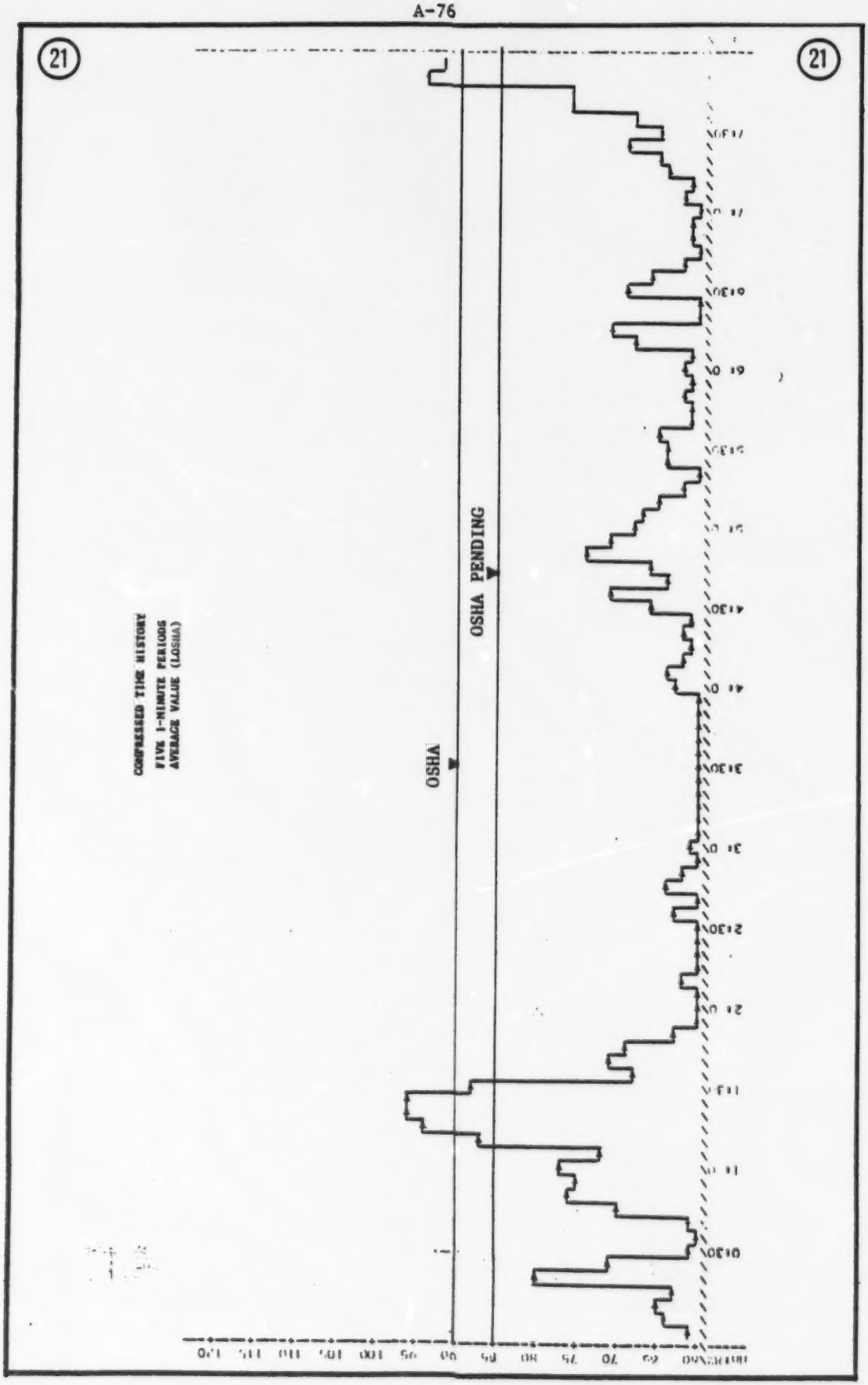
AMPLITUDE DISTRIBUTION

(21) (21)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
308	65.6	60 TO 64
59	12.6	65 TO 69
44	9.4	70 TO 74
23	4.9	75 TO 79
6	1.3	80 TO 84
4	.9	85 TO 89
10	2.1	90 TO 94
16	3.4	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




21
21
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
01:30
21:30
31:30
41:30

(22)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

(22)

```
 1  26  80  1224    60    64     4     1
    28      115200  480
 70  73  77  80  80  80  80  87  80  83  87  88  76  72  72  86
 92  96  96  95  96  96  96  96  97  95  95  95  94  93  95  94
 94  96  96  94  86  93  92  85  70  80  80  80  80  80  80  80
 80  80  80  84  93  93  87  85  74  71  72  80  80  80  82  87
 84  82  83  76  75  85  82  86  87  87 103 106 101  96  77  85
 99  98  99 103  89  99 101 106 103 105 105 105 106 106 105 106
105 105 100 107 107 108 108 106 107 106 103 105 108 109 107 109
110 111 111 109 111 111 110 111 111 110 109 105 110 111 111 111
103 110 111 111 111 111 111 110 110 110 110 110 111 111 111 111
109 107 110 107 105 104 102 102 103 104 106 106 110 110 110 110
106 106 103 111 111 111 112 113 113 113 113 112 112 110 108 107
101  86 104 100 100 101  97 106 106  89  88  95  99  94 100 100
101 106 100 100  99 103 102 102 101 101 101 101 100  99  99  98
 99 100  99  97 106 105  82 104  86  91  95  95  91  87  86  83
 94  94  94  94  94  95  96  93  93  97  97  96  90 105  98  97
105 101  96  86  70  92  96  78  65  77  80  80  80  80  80  80
 80  80  82  85  80  80  73  82  55  80  80  80  83  85  80  88
 72  80  80  80  81  80  80  87  77  81  80  90  98  88  78  76  76
 85  96  99  87 101 105 105 105 104 104 103 109 111 109 107 107
111 110 110 109 104 107 110 110 109 109 105 106 110 110 109 104
110 111 112 111 107 103 103 107 106 107  95  98 101 108 110 110
109 103 105 109 111 109 110 103 106 103 102 100 103 100  99  86
102 106 105 106 106 103 104 105 102 100  97 105 108 106 107 106
105 107 105 107 109 108 107 101  97 107 107 107 108 107  98 108
108 107 108 108 104  92  93  95 100  88  97 109 109 110  91 102
103 103  99 101 107  97 104 105 107 111 108 108 107 110 110 108
104 109 110 109 106 109 101 108  93  90 105 105 106 105  97  97
 96  97  96  90  89  88  73  78  90  95  99  81  82  83  80  88
 80  83  86  80  86  82  83  88  84  91  92  84  84  83  89  83
 82  77  93  93  93  92  94  96  94  94  93  92  93  89  73  84
EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 13/07/79
ENTER SITE CODE (5 CHARS) : CC201
ENTER USER CODE (4 CHARS) : 1597
 ENTER JOB CODE (3 CHARS) : 272
```

```
    DATA LOGGED :18 JULY 1979          DATA ANALYZED : 14 SEPT 1979
        LOGGER : [illegible]-301/26          SITE CODE : CC201
 SERIAL NUMBER : 1224                        JOB CODE : 272
      CALIBRATE : 60 dB                      USER CODE : 1597
  DYNAMIC RANGE : 64 DB                     THRESHOLD : [illegible]
  SAMPLING RATE : 4/SEC                  TOTAL SAMPLES = 115200
  TEST DURATION = [illegible]            STARTING TIME = [illegible]
```

TIME HISTORY ANALYSIS

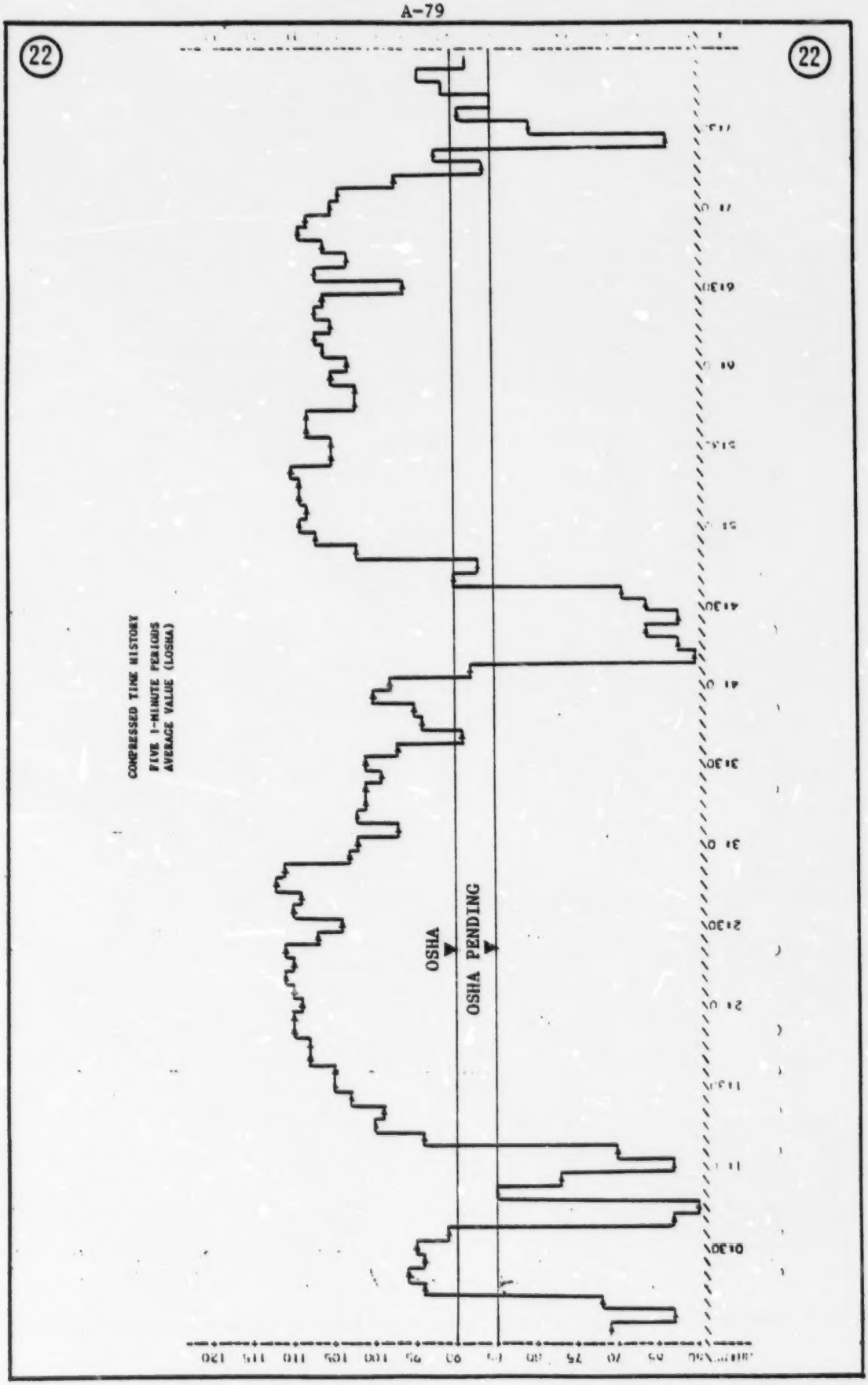
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
LOG LOSS = 90 DB / 10 DB
EXCHANGE (CALIBRATION) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTE

TIME	LOG-A		LOG-B	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	88.7	88.7	10.370	10.37
2	100.4	103.2	21.480	100.91
3	102.3	104.6	142.005	243.42
4	99.0	103.6	43.395	327.30
5	94.3	102.4	22.991	350.29
6	107.2	103.5	136.484	486.76
7	105.8	104.9	111.439	597.20
8	95.4	104.2	26.571	623.77

MIN. COMP. = 60 DB MAX. COMP. = 113 DB
ARITHMETIC MEAN = 94 DB
STD. DEVIATION = 13 DB
VARIANCE =250 DB

(22) AMPLITUDE DISTRIBUTION (22)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
55	11.5	60 TO 64
13	2.7	65 TO 69
13	2.7	70 TO 74
12	2.5	75 TO 79
13	2.7	80 TO 84
24	5.0	85 TO 89
40	8.3	90 TO 94
67	14.0	95 TO 99
63	13.1	100 TO 104
116	24.2	105 TO 109
64	13.3	110 TO 114
0	0.0	115 TO 119
TOTAL NO. OF DATA POINTS = 480		


22
22
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

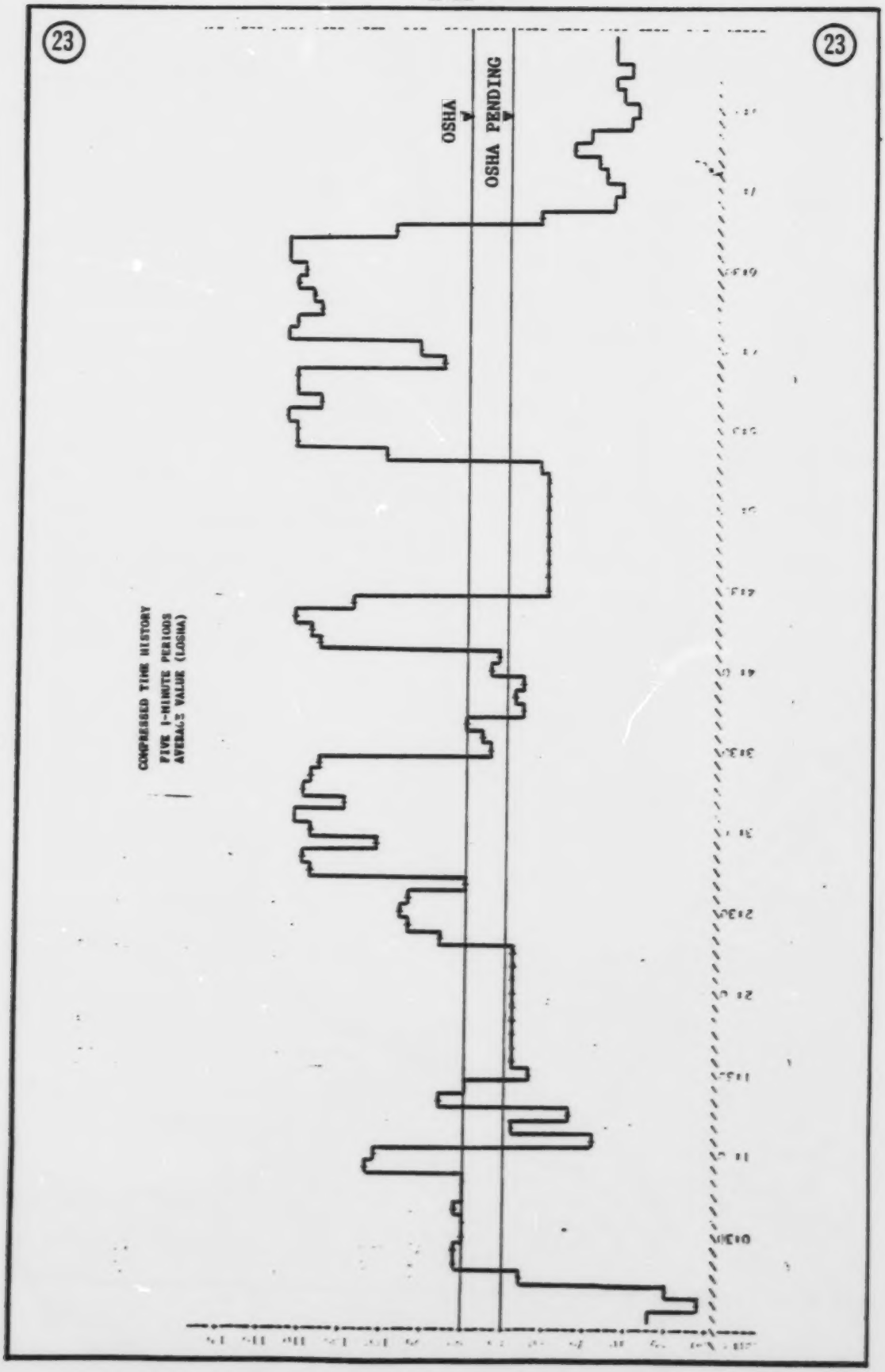
(23)

```
PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
  1  26  80  121.  60   64    4    1
  10492      115200  480
  65  66  74  60  60  60  64  60  60  60  60  71  63  61  63  74
  63  79  76  90  91  91  90  91  91  91  91  91  91  91  90  90
  90  90  90  90  91  90  90  91  91  91  91  91  90  90  91  90
  90  88  84  89  92  90  93 103 102 100 102 102 100 102 102 102
  95  83  63  65  80  75  93  87  80  73  80  80  89  81  79  85
  81  95  78  90  89  95  94  94  45  82  73  80  84  82  85  84
  84  84  84  84  84  84  84  84  84  84  84  84  84  84  84  84
  84  84  84  85  84  84  84  89  84  84  84  84  84  84  92  96
  84  84  84  84  84  84  84  84  85  84  84  84  84  84  92  96
  97  97  97  97  97  97  97  97  97  97 100  97  94  97  94 100
  90  82  83  89  90  96 110 110 111 111 111 111 110 109 110 111 11
  84  83  83 102 110 110 110 110 102 110 111 111 111 111 111 113 109
  97  93  99 110 110 111 110 110 108 103 110 111 110 111 110 110
 105  92  95  82  82  82  82  83  83  83  92  92  95  89  91  87
  83  83  83  83  83  83  84  83  84  84  84  83  83  84  83  83
  83  89  93  83  83  83  83  83  83  92  98  99 110 112 111 110
 111 110  96 110 110 111 111 111 111 110 111 109  87  84  82  80  80
  80  80  80  80  80  80  80  81  80  80  80  80  80  80  80  80
  80  80  80  80  80  80  80  80  80  80  80  80  80  80  80  83
  80  80  80  80  80  80  80  80  80  80  80  80  80  80  80  83
  83  94  96  96 109 110 110 112 112 108 106 112 112 113 112 110
 113 112 112 112 112 112 106  97 107 112 112 112 109 107 112 112
 112 112 104  95  93  91  95  92  97  94  89  97  99 111 113 113
 112 112 109 105 113 113 113 113 112 106  96 101 111 110 109  94
 111 110 110 112 107 113 113 113 112 101  97 110 112 112 113 112
 109 113 112 113 113 107  96  99  85  85  85  84  81  75  72  72
  73  69  71  72  70  73  72  70  69  69  74  72  75  73  76  71
  70  72  77  78  73  81  77  72  81  76  68  72  74  68  71  70
  71  69  69  69  67  72  69  71  71  67  72  73  72  70  73  72
  71  71  72  70  68  69  74  72  71  71  72  69  73  72  70  74
%EOF


ENTER LOG DATE (DD/MM/YR) : 23/07/79

ENTER SITE CODE (5 CHARS) : CC201
ENTER USER CODE (4 CHARS) : 0335
 ENTER JOB CODE (3 CHARS) : 271


   DATA LOGGED :23 JULY 1979          DATA ANALYZED : 17 SEPT 1979
       LOGGER : DS-301/26                 SITE CODE : CC201
SERIAL NUMBER : 1112                       JOB CODE : 271
      BASELINE : 60 DB                     USER CODE : 0335
SYLATIC MODE : 64 HZ                     THRESHOLD :
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =  8 HR 0 M             STARTED AT =  8:30:3


          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
USE BASE OF THE FOLLOWING
TIME UNIT = 1 / 4 SEC
ANALYSIS (SAMPLE) RATE = 4 HZ
EXCEEDANCE (TRIGGER) LEVEL = 60 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

 TIME          LEQ                    NOISE
 MIN      CURRENT    CUMULATIVE     CURRENT    CUMULATIVE
   1        90.6        90.6        13.650        13.65
   2        88.6        89.8        10.548        24.20
   3        94.8        94.0        43.413        67.61
   4       104.1        95.4       106.305       174.01
   5       103.7        99.0        99.654       273.63
   6       106.2       100.8       117.564       391.20
   7       104.1       102.4       104.237       495.43
   8       92.9        101.9         9.104       504.54
MIN. CUMP. =  90.6          MAX. CUMP. = 113.1
ARITHMETIC MEAN =  99.08
STD. DEVIATION =  1.3
```

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
17	3.5	60 TO 64
18	3.8	65 TO 69
49	10.2	70 TO 74
11	2.3	75 TO 79
142	29.6	80 TO 84
21	4.4	85 TO 89
55	11.5	90 TO 94
37	7.7	95 TO 99
17	3.5	100 TO 104
19	4.0	105 TO 109
94	19.6	110 TO 114
0	0.0	115 TO 119
TOTAL NO. OF DATA POINTS = 480		

(23)

(23)


23
23
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(24)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN."
1 20 40 1224 60 64 4 1
88 40947 170

112	109	113	111	107	110	109	104	109	109	107	98	96	96	92	90
94	102	109	109	95	93	87	86	86	88	90	90	92	92	94	93
95	108	109	103	109	108	106	105	109	108	95	91	86	89	89	92
91	93	95	94	91	92	83	82	87	91	96	85	74	67	63	60
83	85	98	98	94	96	99	97	97	101	99	93	95	91	75	70
76	62	79	73	84	76	82	92	82	74	73	74	80	70	64	63
60	63	65	67	68	66	72	70	64	60	60	61	60	63	69	67
77	65	65	77	76	71	68	77	69	64	63	65	67	61	60	60
60	60	64	60	60	60	63	60	60	64	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	66	60	60	60	70	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
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60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
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60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

*EOF

ENTER LOG DATE (DD/MM/YR) : 12/07/79
ENTER SITE CODE (5 CHARS) : 00202
ENTER USER CODE (4 CHARS) : 7635

ENTER JOB CODE (3 CHARS) : 271

DATA LOGGED :12 JULY 1979
LOGGER : SE-301/24
SERIAL NUMBER : 1224
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 2:50:36

DATA ANALYZED : 12 SEPT 1979
SITE CODE : 00202
JOB CODE : 271
USER CODE : 7635
THRESHOLD : 60 DB
TOTAL SAMPLES = 40947
STARTING TIME = 08:1822

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
TOUR LOSS = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF CALCULATIONS = 170
PERIOD = 1 MINUTES

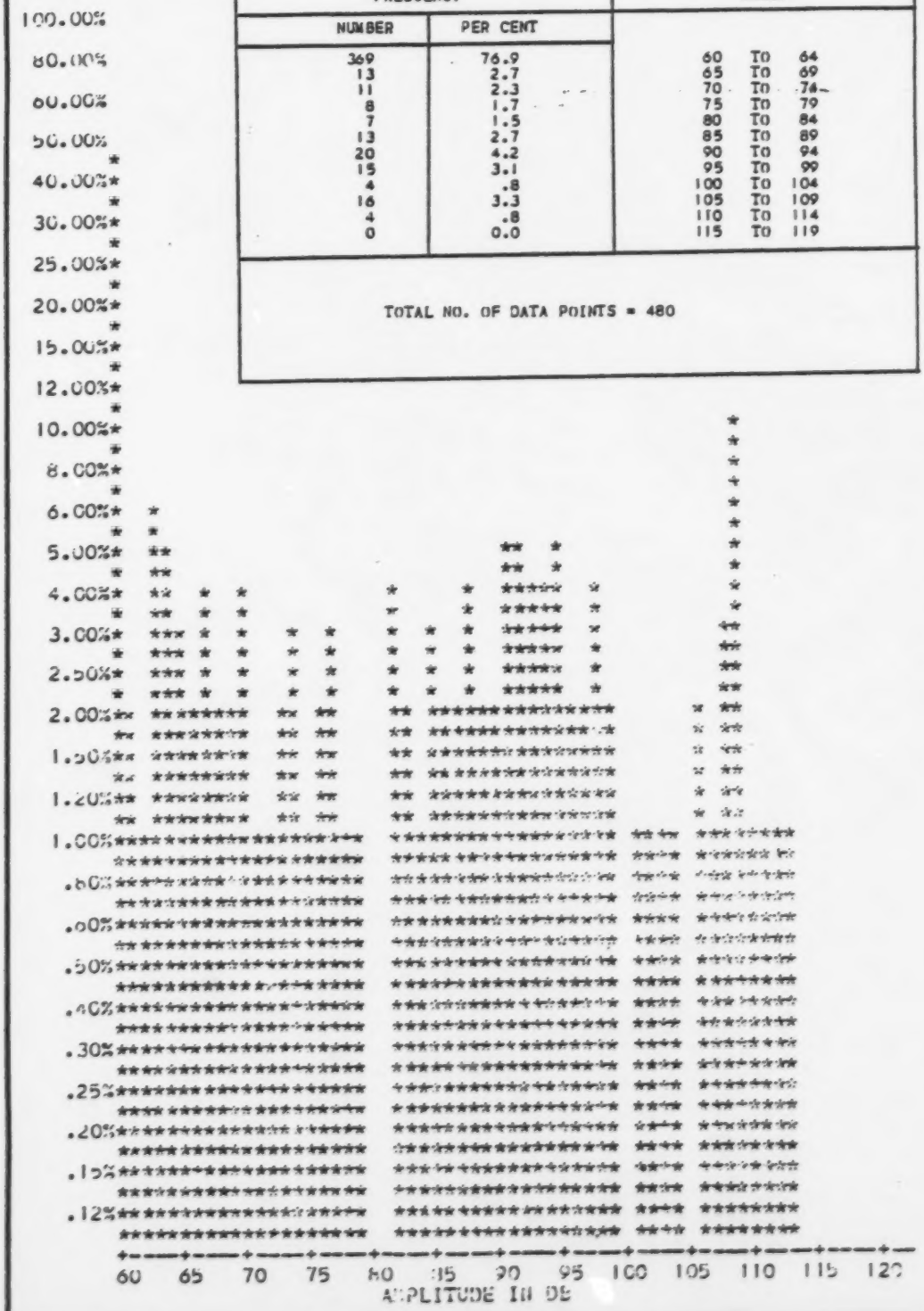
TIME	LOGA		NOISE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	102.7	102.7	72.736	72.74
2	99.6	99.4	7.454	80.59
3	96.0	96.0	.377	80.97

MIN. COMP. = 60 DB MAX. COMP. = 113 DB
ARITHMETIC MEAN = 79.09
STD. DEVIATION = 17.09
VARIANCE = 289.36

(24)

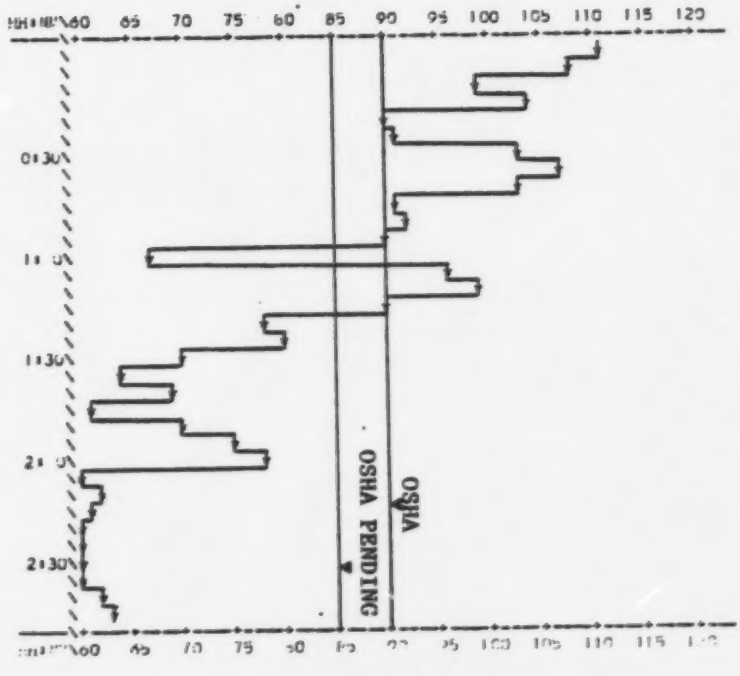
FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
369	76.9	60 TO 64
13	2.7	65 TO 69
11	2.3	70 TO 74
8	1.7	75 TO 79
7	1.5	80 TO 84
13	2.7	85 TO 89
20	4.2	90 TO 94
15	3.1	95 TO 99
4	.8	100 TO 104
16	3.3	105 TO 109
4	.8	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480



(24) (24)

COMPRESSED TIME HISTORY
FIVE MINUTE PERIODS
AVERAGE VALUE (LOSHA)



(25)

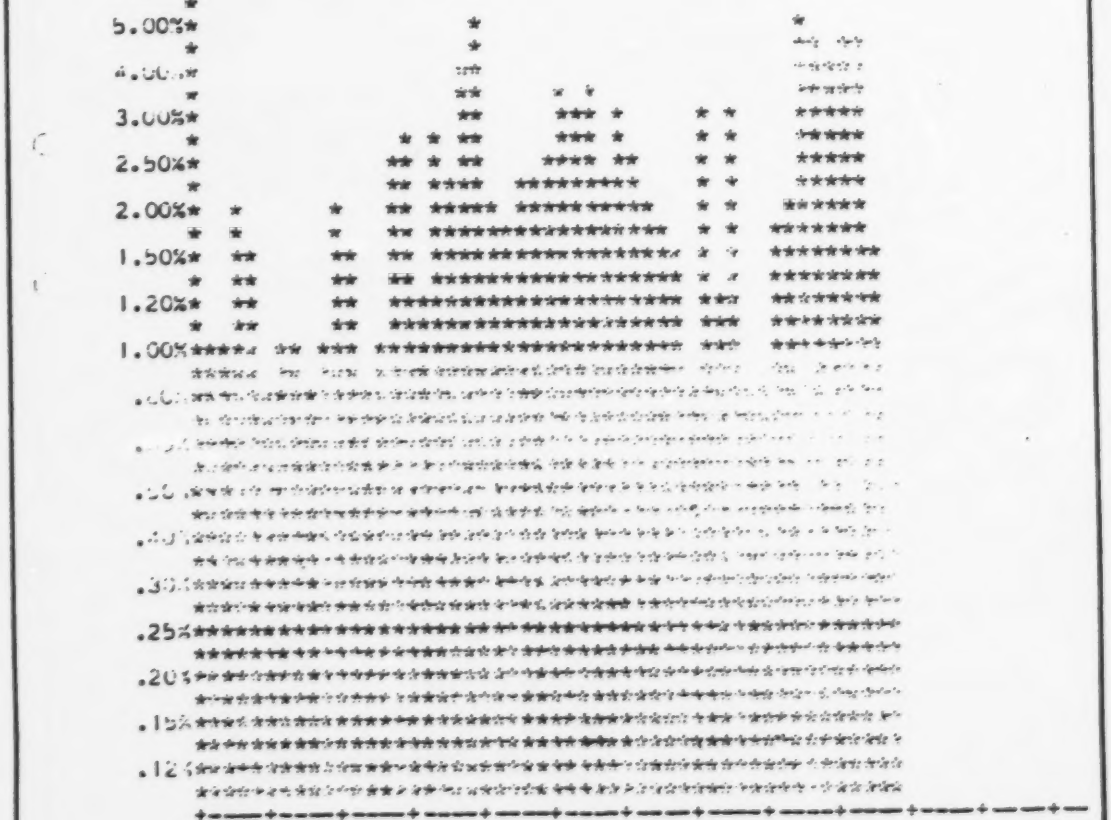
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1220    60   64    4    1
      36      115200  480
  76  79  75  75  75  78  70  71  79  70  74  78  79  75  74  71
  63  78  75  70  73  62  65  87  99  96  96  96  96  96  95  97
  90  96  90  92  96  93  93  85  80  60  60  60  60  60  60  60
  77  91  85  80  81  80  80  80  80  81  82  88  78  78  79  87
  79  79  75  76  77  80  79  77  77  90  79  79  80  90  74  68
  77  87  87  79  78  79  81  88  89  83  83  78  74  76  77  71
  77  88  86  74  79  85  87  86  80  80  80  81  81  80  86  90
 102  80  91  88  60  64  87  70  72  70  60  60  60  60  60  60
  60  75  81  71  71  60  60  66  75  60  64  60  60  60  60  60
  60  84  65  67  79  67  75  84  78  77  92  89  76  90  72  93
  70  78  82  75  89  87  79  93  86  62  72  69  63  80  79  84
  90  84  87  85  86  74  84  86  73  61  71  78  70  74  75  81
  85  85  84  89  89  88  83  84  87  88  87  86  86  83  82  80
  89  91  90  86  81  77  92  63  60  60  60  60  60  60  60  60
  60  60  60  60  60  63  60  60  60  60  60  60  60  60  60  60
  68  63  68  66  84  94  82  77 100 104  94  91  91 107 105 103
 103 101 103 105 104 103 102  97  98  98  90  90 104 105 102 101
 101 104 104 101 105 104  96  86  91  80  88  84  86 103 106 104
 103 102  98 107 108 107 105 105  86 105 106 102 103  94 104 104
 102 101  90  88  78  89  76  77  80  84  88  87  85  79  83  84
  86  85  84  77  81  74  74  86  87  90  83  86  87  86  80  80
  60  62  67  72  98  98  83  81  86  91  73  83  84  89  73 104
 105 105 101 107 109 106 103 106 106 106 102  92  97 105 106 104
 103  98 107 107 105 103 104 106 107 107 105 103 102  96  98  93
  92  86  91 105 107 106 104 103 108 106 105 103 103  92 106 108
 106 106 104  97  82 101 107 106 106 103 107 109 103  93  90  82
  88 100 107 104 107 108 108 107 104  94 103 104 106 106 106 107
 107 106 105 103 107 107 105 103  93  93  85  74  91  96  84  81
  83  82  89  80  83  85  82  90  90  89  89  90  92  91  90  95
  95  97  94  98  99 100  98  99  98  98  94  85  80  80  83  83
EOF

ENTER LOG DATE (DD/MM/YR) : 19/07/79

ENTER SITE CODE (5 CHARS) : CC202
ENTER USER CODE (4 CHARS) : 4123
 ENTER JOB CODE (3 CHARS) : 271

   DATA LOGGED :19 JULY 1979          DATA ANALYZED : 14 SEPT 1979
      LOGGER : 00-301/26                 SITE CODE : CC202
SERIAL NUMBER : 1220                      JOB CODE : 271
     BASELINE : 60 DB                   USER CODE : 4123
DYNAMIC RANGE : 64 DB                    THRESHOLD :  60 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =  08 01 0               STANDBY TIME =  08 01 0

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LEQ dA                      SOUND
HOUR    CURRENT  CUMULATIVE        CURRENT  CUMULATIVE
   1      87.4      87.4          8.723        8.72
   2      84.0      85.9          5.416       14.14
   3      81.8      84.6          3.532       17.73
   4      81.0      83.9          3.603       21.33
   5     101.0      91.6         57.084       78.42
   6      99.5      92.4         26.414      104.83
   7     103.5      95.5         81.294      186.13
   8      99.6      96.1         47.490      234.02
MIN. COMP. =  60 DB                    MAX. COMP. = 109 DB
ARITHMETIC MEAN =  84 DB
STD. DEVIATION =  15 DB
VARIANCE =229 DB
```

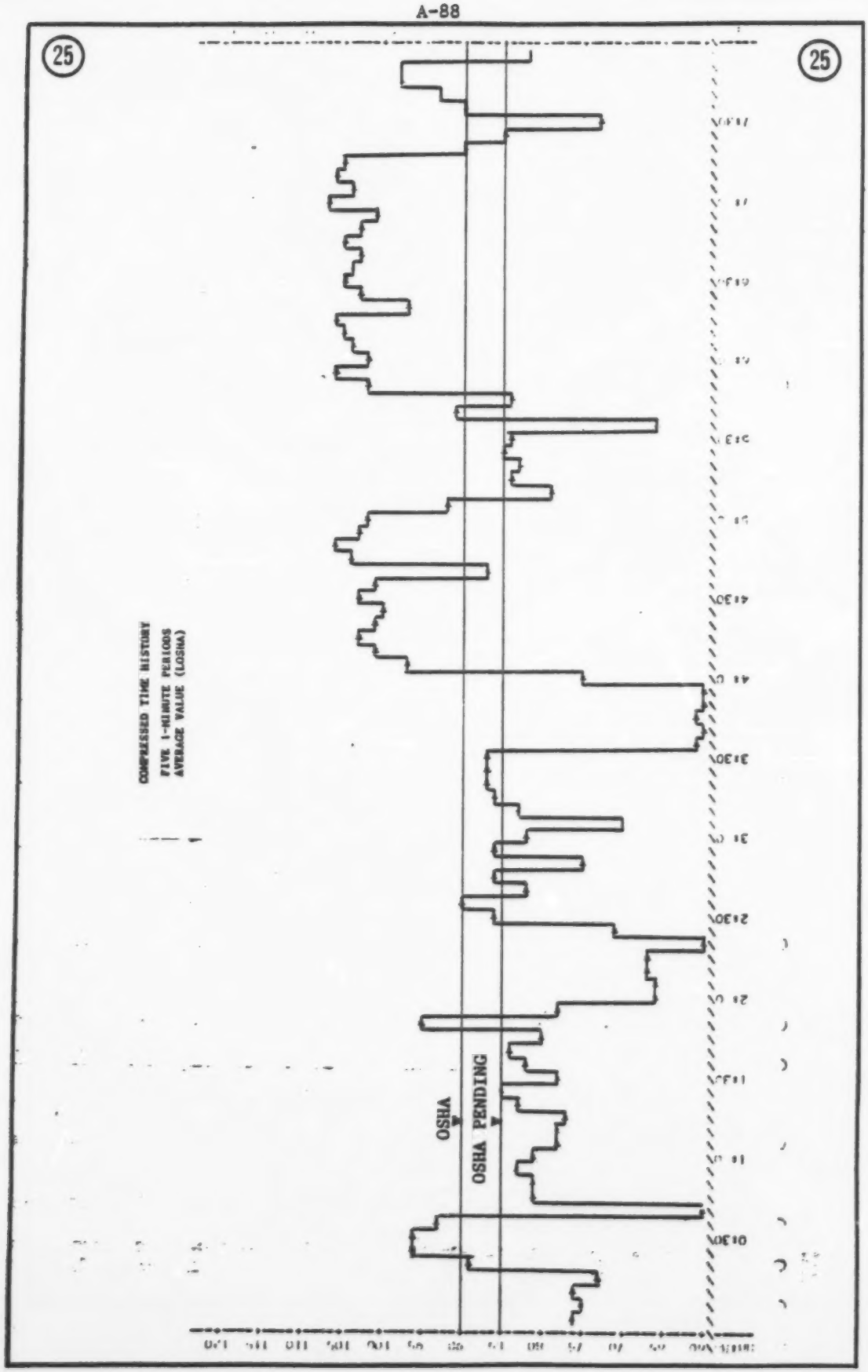
(25)

AMPLITUDE DISTRIBUTION

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
75	15.6	60 TO 64
18	3.8	65 TO 69
31	6.5	70 TO 74
52	10.8	75 TO 79
52	10.8	80 TO 84
60	12.5	85 TO 89
43	9.0	90 TO 94
35	7.3	95 TO 99
54	11.3	100 TO 104
60	12.5	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




25
25
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(26)

```
PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
  1  26  80  121*   60   64    4    1
      65      115200  480
  71  67  74  75  73  72  60  65  76  72  74  77  71  75  74  74
  88  99 100 100 101 101 102 101  94  94  96  94  95  96  93  94
  94  93  96  96  94  95  95  93  92  90  90  93  86  78  70  61
  [illegible]
  95  97 102 104 103 105 104 101  97  91  91  [illegible]
  75  84  [illegible]
 102 107 106 103 100 100 103 106 107 103 107 106 [illegible]
 107 107 107  94  93  93  96  96  93 101 107 107 106 105 103 103
 [illegible]
  99  98  99 102 102 103 103  99 101 103 104 104 105 101  92 102
 103 103 [illegible]
  [illegible]
  95  97  98 106 106 100 106 105 105 105  96 102 106 105 105 100
 105 101 106 104 107 107 105  96  79  90  73  88  96  92  97  97
  [illegible]
  95 103 103 103 103  99 102 104 104 104 102 101 103 103 103 102
 102 104 104 103 100 101 102 102 102 102  98 102 103 103 103 101
 102 103 102  92  92  96  98  96 101 105 105  98  98 104 104  99
 103 103 101 101  95 101  99  98  [illegible]
  93  78  97  99  96  79  86  87  81  95  97  89  74  [illegible]
 100  98 100 104 105 103  99  99 101  98 102 105 105 101 105 105
 106 101  90  85  88  86  84  90  80  90  97  95  96  91  97 103
 100  85  90  97 101 105 105 104 103 102 101 104 104  96 100  97
  98  82  84  81  76  79  90  80  94  94  32  93  95  82  91  96
 103 105 105 105 104  98 103 104 104 104 103  96  95  88  90  74
  86  94  94  81  80  97  69  71  67  92  96  92  92  92  92  92
  92  92  90  92 102  89 105 104 104 104 104  99  99  75  94  95
  95  95  95  95  96  94  94  94  95  93  88  85  91  90  92  72
  72  67  61  60  62  61  60  62  68  72  68  86  87  88  87  90
  87  90  90  94 100  96  99 104 102 102 102 102  99 101  [illegible]
*EOF
```

(26)

```
ENTER LOG DATE (DD/MM/YR) : 19/07/79
ENTER SITE CODE (5 CHARS) : CC2C2
ENTER USER CODE (4 CHARS) : 7913
 ENTER JOB CODE (3 CHARS) : 281
```

DATA LOGGED :19 JULY 1979
LOGGED : [illegible]
SAMPLE RATE : 121*
[illegible]
[illegible]
SAMPLING RATE : [illegible]
TEST DURATION = [illegible]

DATA ANALYZED : 14 SEPT 1979
SITE CODE : CC2C2
JOB CODE : 281
USER CODE : 7913
THRESHOLD : [illegible]
TOTAL SAMPLES = [illegible]
SAMPLES [illegible]

TIME HISTORY ANALYSIS

[illegible] (R.M.S.) CALCULATIONS
ARE BASED ON THE FOLLOWING
[illegible]
CALCULATE (CUMULATIVE) [illegible]
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOUDNESS		SONE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	90.9	90.9	14.239	14.24
2	100.0	94.8	50.335	67.56
3	104.1	98.1	57.179	131.74
4	101.1	99.6	58.219	189.96
5	101.4	100.0	50.793	250.76
6	98.6	99.9	41.137	291.90
7	99.9	99.5	32.441	324.33
8	95.6	99.1	27.033	351.37

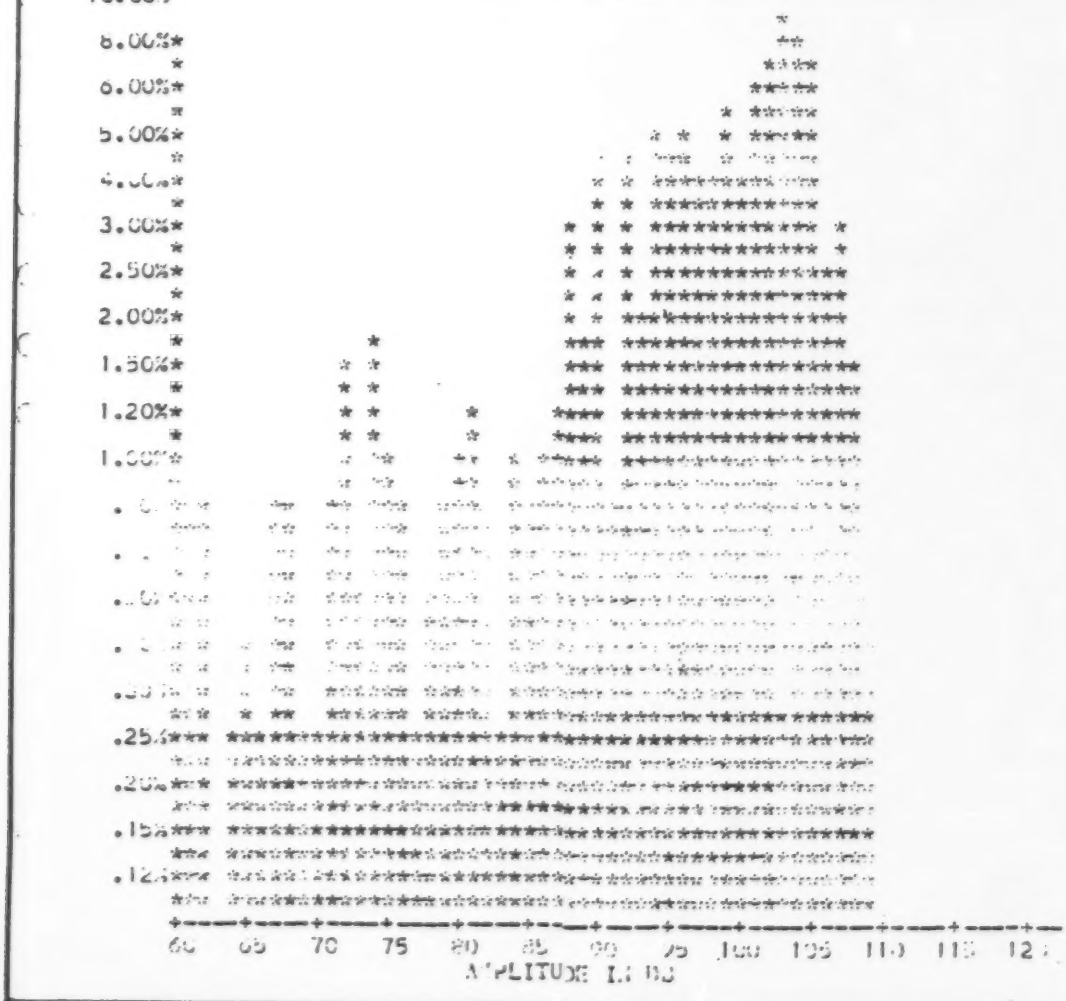
MIN. COMP. = 60 DB
ARITHMETIC MEAN = 92 DB
STD. DEVIATION = 13 DB
VARIANCE = [illegible]

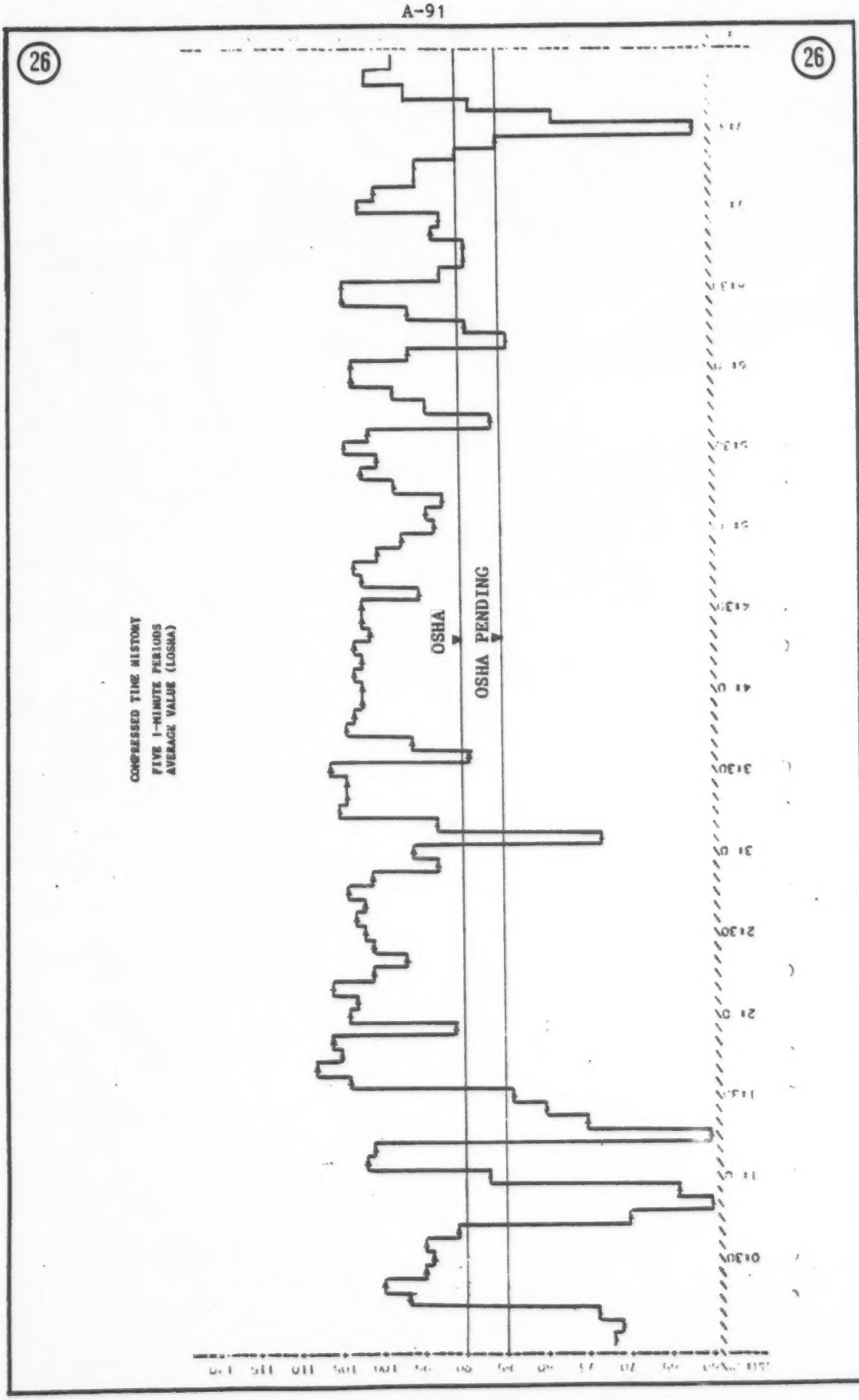
MAX. COMP. = 104 DB

(26)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
38	7.9	60 TO 64
10	2.1	65 TO 69
19	4.0	70 TO 74
13	2.7	75 TO 79
17	3.5	80 TO 84
31	6.5	85 TO 89
66	13.8	90 TO 94
91	19.0	95 TO 99
135	28.1	100 TO 104
60	12.5	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119
TOTAL NO. OF DATA POINTS = 480		

(26)




26
26
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

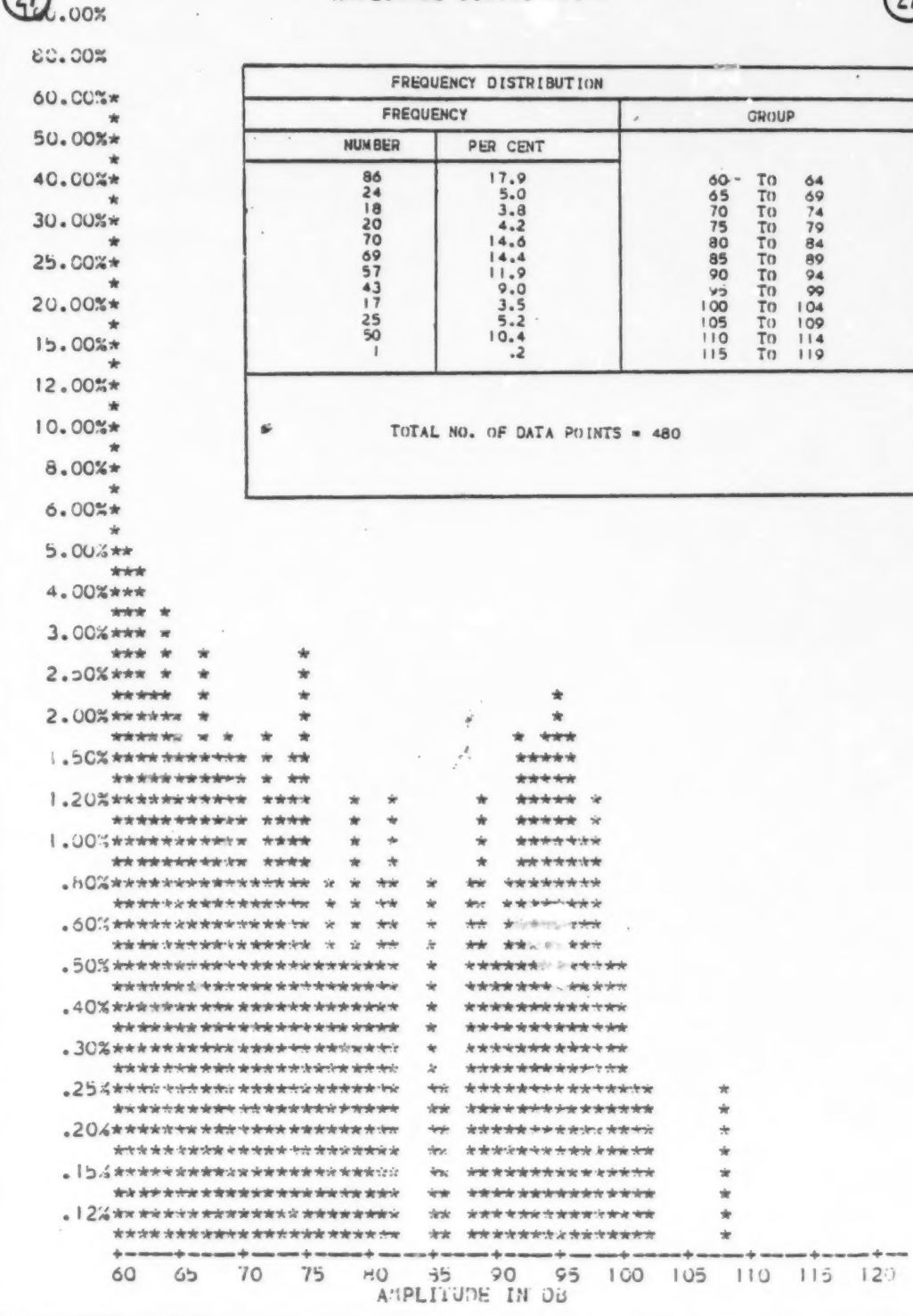
(27) (27)

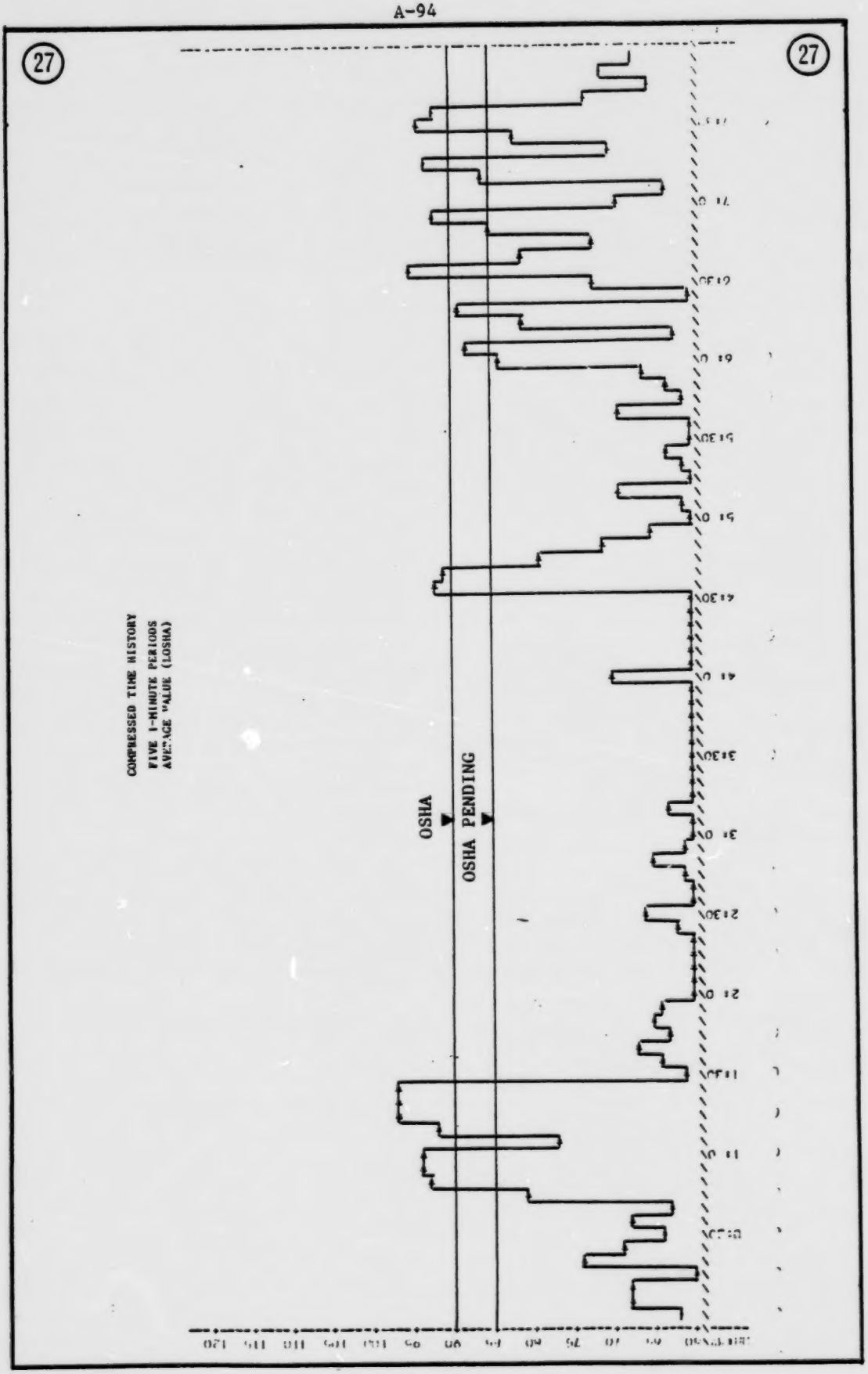
```
PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
  1  26  80  1213   60   64    4    1
     195     115200  480
  69  73  62  61  60  61  68  61  62  60  60  60  76  78  75  74
  75  68  68  69  74  69  66  63  66  70  65  69  72  61  62  60
  65  60  60  63  61  72  66  61  75  91  73  79  79  60  60  60
  60  60  61  65  64  62  70  94  92  69  72  76  78  86  85  85
 101  94  95  96 100  97  95  96  [illegible]  98  95  96  95  62  66  60
  62  62  60  60  60  60  60  60  67  74  [illegible]  89  90  90  [illegible]  93
  94  92  92  93  90  90  90  96  95  97  91 100 104  93  92  92
  92  93  90  91  93  92  91  91  91  91  93  89  [illegible]  86  89  82
  83  83  [illegible]  89  89  97  87  84  90  93  92  95  94  [illegible]  95  96
  97  99  95  94  98  92  94  95  95  94  85  88  88  85  82  87
  84  87  88  78  86  84  82  82  85  84  84  83  84  84  89  95
  96  93  85  60  60  60  60  60  63  77  80  84  61  60  63  84
  84  84  86  89  96  83 105 110 115 111 113 107 114  95 109 107
  93  97  86 113 109 109 114 107 113 105 104 113 104  [illegible]  92  89
  87  88  87 108 112  98 114 111 112 107 111 112  [illegible]  99  85  99
  89  88 103 111  93  87  89  87  88  83  92  90  [illegible]  89  89  90
  87  90  90  90  89 110 112 111 112 111 112 108 100  82  82  92
  91  64  60  60  60  60  60  60  60  60  60  63  60  60  60  60
  60  60  60  60  60  60  60  64  60  63  62  60  65  67  60  66
  60  60  60  60  60  60  60  63  63  61  60  71  68  70  80  93
  85  81  80  80  80  79  80  80  80  80  80  80  81  68  80  84
  85  85  84  85  85  85 105 111 114 112 111 112 113 111 104  84
  82  83  85  88  90 110  81  80  80  80  80  81  80 104 113 104
  84  90 111 106 110 104  98  83  82  85  83  95 111 100 111 111
 110 110 107 112  83  89 101  84  85 107 109  95  93 109 113 109
 111 103 108 111  98  91  82  82  82  82  81  82  86  83  97  92
  82 110 106 107  98 110 104 113 111 112 110 113 107 109 111 106
  86  86  99 112 106 104  98  83  79  79  78  81  77  82  78  77
  83  79  84  92  91  71  76  68  67  75  80  73  71  86  88  85
  86  85  86  87  88  89  88  63  72  72  70  68  60  72  96  98
%EOF


ENTER LOG DATE (DD/MM/YR) : 12/07/79
ENTER SITE CODE (5 CHARS) : CC204
ENTER USER CODE (4 CHARS) : 4155
 ENTER JOB CODE (3 CHARS) : 010


   DATA LOGGED :12 JULY 1979          DATA ANALYZED : 12 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : CC204
SERIAL NUMBER : 1213                         JOB CODE : 010
      BASELINE : 60 DB                      USER CODE : 4155
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0               STANDBY TIME =   0: 0:48

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                      %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      75.2      75.2          1.602      1.60
   2      92.5      88.1         17.586     19.19
   3      90.8      89.1         14.045     33.24
   4     105.4      97.3        105.150    138.39
   5      97.8      97.4         36.970    175.36
   6      98.5      97.6         40.385    215.74
   7     103.9      98.9         85.375    301.12
   8     100.2      99.1         51.190    352.31
MIN. COMP. =  60 DB              MAX. COMP. = 115 DB
ARITHMETIC MEAN =  85 DB
STD. DEVIATION =  16 DB
VARIANCE =256 DB
```

(27) AMPLITUDE DISTRIBUTION (27)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
86	17.9	60 - TO 64
24	5.0	65 TO 69
18	3.8	70 TO 74
20	4.2	75 TO 79
70	14.6	80 TO 84
69	14.4	85 TO 89
57	11.9	90 TO 94
43	9.0	95 TO 99
17	3.5	100 TO 104
25	5.2	105 TO 109
50	10.4	110 TO 114
1	.2	115 TO 119

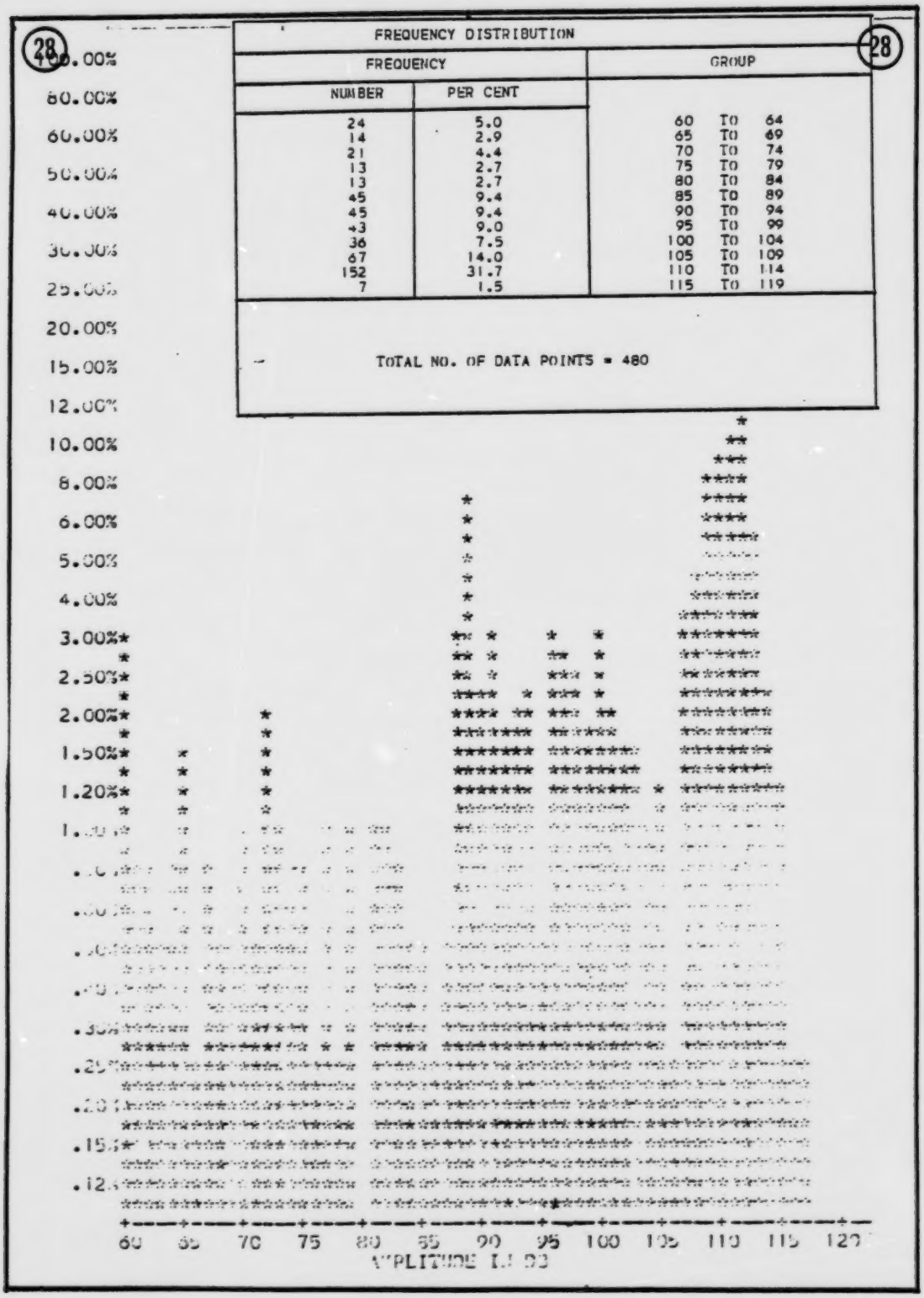
TOTAL NO. OF DATA POINTS = 480




27
27
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

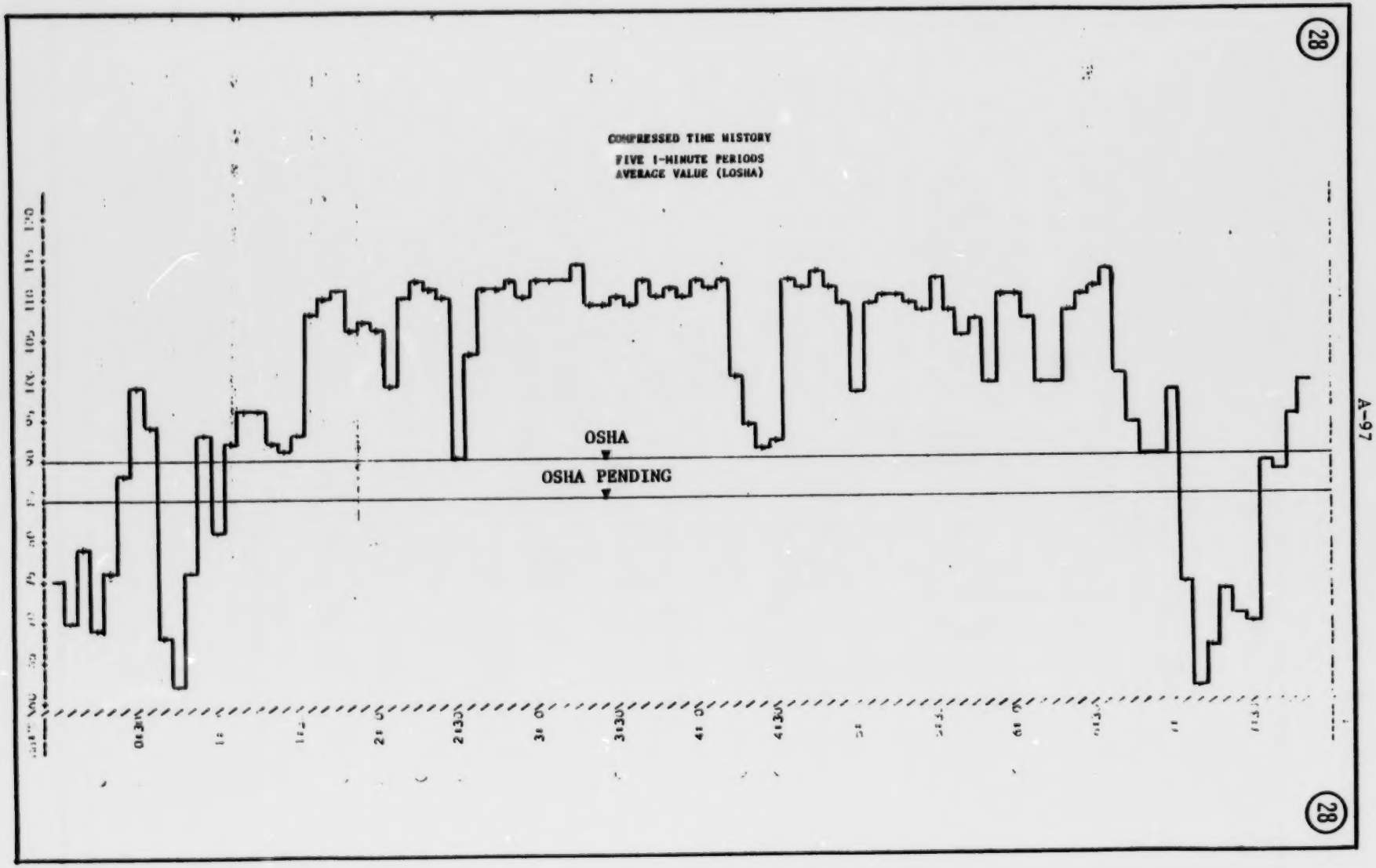
(28) (28)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1213   60   64    4    1
     530     115200  480
  70  72  74  77  77  63  67  65  73  75  78  79  85  73  70  72
  72  72  60  62  66  71  76  83  74  79  86  88  89  93  99 100
  99 100  99  97  98  97  83  75  75  70  65  60  60  67  61  61
  60  60  65  63  72  83  77  73  82  96 100  89  81  81  81  82
  81  84  87  88  94  97  96  97  96  97  96  98  93  89  89 101
  96  94  90  89  89  92  91  92  91  89  89  92  96  93  93  94
 108 111 111 108 112 111 110 108 110 109 109 109 113 112 113 111
  96  91  91  92  94 107 110 112 112 109 104  91  90  99 102  97
  94 100 101 105 110 113 113 112 112 110 113 113 112 110 109 110
 112 113 110 107 111 107  94  89  88  88  89 103  97  94 100 110
 112 112 112 111 110 110 109 113 112 111 111 109 109 108 117 115
 111 107 107 107 107 113 113 112 112 112 111 111 112 112 112 113
 112 112 110 115 115 113 112 112 111 111 111 108  92 111 110 109
 108 108 107 105 113 110 110 109 108 109 107 110 114 113 112 111
 111 111 109 111 108 112 113 112 111 111 108 109 112 109 110 109
 108 107 114 114 113 112 112 111 109 112 113 112 112 110 111 109
  98  90  89  90  88  92  88  94  96  97  90  89  82  89  89  88
  88  88  98 100 113 114 114 113 111 109 112 112 111 112 114 112
 111 115 112 107 113 111 111 111 110 111 108  95  98  99  97  89
 102 100 101 112 112 111 110 110 110 109 112 109 109 109 111 110
 110 108 104 107 114 110 109 108 108 107 114 113 112 110 110 107
 104 103 112 110 111 105  93  93 105 110 109 109 103 101  96  97
  89  98 106 110 111 111 109 108 108 109 110 112 111 110 109 110
 103  97 101 101 102  92  96  91  96  98 103 103 102  99 101 112
 113 111 111 110 109 111 112 112 112 111 109 114 110 116 115 104
 100  96  90 105 102  90 101  93  89  89  90  91  91  91  88  89
  89  89  90  91  94 100  98  96 100  84  61  60  69  65  60  60
  60  60  64  60  68  65  69  62  60  60  79  77  67  73  71  64
  72  65  62  70  74  64  68  87  89  89  89  89  89  88  88  88
  88  91  89  91  93 102  98 100  99 100  95  79  72  85  82  72
%EOF


ENTER LOG DATE (DD/MM/YR) : 20/07/79
ENTER SITE CODE (5 CHARS) : 28205
ENTER USER CODE (4 CHARS)@: 1108

 ENTER JOB CODE (3 CHARS) : 281


   DATA LOGGED :20 JULY 1979          DATA ANALYZED : 14 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : 28205
SERIAL NUMBER : 1213                        JOB CODE : 281
     BASELINE : 60 DB                       USER CODE : 1108
DYNAMIC RANGE : 64 DB                       THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 2:12


          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                      NDOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      87.6       87.6        8.920       8.92
   2     103.4       99.1       79.655      83.57
   3     108.9      104.0      171.349     259.92
   4     110.9      106.4      226.038     485.96
   5     108.9      107.0      171.076     657.04
   6     108.1      107.2      153.464     810.50
   7     106.3      107.0      119.014     929.52
   8      89.1      106.2       10.968     940.48
MIN. COMP. =  60 DB            MAX. COMP. = 117 DB
ARITHMETIC MEAN =  97 DB
STD. DEVIATION =  15 DB
VARIANCE =225 DB
```



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
24	5.0	60 TO 64
14	2.9	65 TO 69
21	4.4	70 TO 74
13	2.7	75 TO 79
13	2.7	80 TO 84
45	9.4	85 TO 89
45	9.4	90 TO 94
43	9.0	95 TO 99
36	7.5	100 TO 104
67	14.0	105 TO 109
152	31.7	110 TO 114
7	1.5	115 TO 119

TOTAL NO. OF DATA POINTS = 480


28
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
28

29

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

29

```
  1  26  80  1213   60   64    4    1
     439     115200  480
  73  64  64  62  62  63  63  60  67  64  60  60  60  60  65  75
  60  60  61  60  60  70  70  63  60  60  61  60  60  62  60  60
  63  60  60  65  61  60  60  63  66  60  68  62  69  60  60  62
  61  65  70  76  79  86  82  84  87  89  89  90  90  90  89 100
 101  99 101 100 100 100 102 101  97  88  90  74  [illegible]  91  77  [illegible]
  84  91  94  87  87  93  95  94  96  94  91 103  97  90  90 100
  99  91  76  84  81  63  65  60  67  71  60  60  61  60  65  75
  60  70  76  62  81  76  92  81  67  67  98  94  91  98  97  99
 100  97  94  79  74  81  84  84  69  63  60  60  60  62  64  77
  74  61  65  60  61  87  85  89  90  97  94  95  96  85  96  98
  98  98 100  99  99  92  60  60  60  60  60  60  87  99  97  64
  73  72  60  64  60  60  93  82  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  91  93  97  99
  99  91  96  98  94  94  99  97  86  94  82  72  68  60  72  84
  77  66  84 101 101 102 102 104  74  90  90  93  92  94  90  84
  83  96  89 104  92  63  60  66  60  61  60  60  60  63  65  61
  62  61  69  60  61  60  60  67  60  60  76  72  60  62  63  62
  60  60  60  61  60  60  60  60  60  60  60  64  61  61  60  60
  61  61  60  60  61  60  60  61  62  79  63  60  67  73  60  60
  61  64  68  67  60  62  60  60  60  60  60  60  60  60  60  60
  72  67  74  89  96  87  90  88  86  83  88  85  86  90  88  96
  89  89  87  86  97  95  92  85  96  99  99  98  95  91  80  96
  91  68  64  83  88  90  87  85  85  84  85  85  84  89  81  65
  72  60  63  65  69  60  60  74  69  72  69  72  77  70  72  73
  71  62  67  64  60  62  73  66  65  78  84  67  60  61  60  61
  60  62  60  60  60  63  60  60  60  60  60  75  63  66  64  62
  80  77  60  62  60  60  60  60  61  68  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  62  60  60  60  67  60  60  70
  64  62  60  61  60  60  63  60  85  90  88  88  88  89  95  92
  92  93  92  94  91  73  62  60  64  68  75  73  68  74  63  75
%EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 23/07/79
ENTER SITE CODE (5 CHARS) : CC205
ENTER USER CODE (4 CHARS) : 4194
 ENTER JOB CODE (3 CHARS) : 271
```

```
   DATA LOGGED :23 JULY 1979          DATA ANALYZED : 17 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : CC205
SERIAL NUMBER : 1213                        JOB CODE : 271
     BASELINE : 60 DB                       USER CODE : 4194
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 1:49
```

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		NOOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	73.3	73.3	1.242	1.24
2	92.4	87.9	17.493	18.73
3	90.8	89.0	14.057	32.79
4	91.2	89.6	14.780	47.57
5	79.1	88.4	2.766	50.34
6	87.9	88.4	9.395	59.73
7	74.0	87.4	1.364	61.10
8	80.7	86.8	3.425	64.52

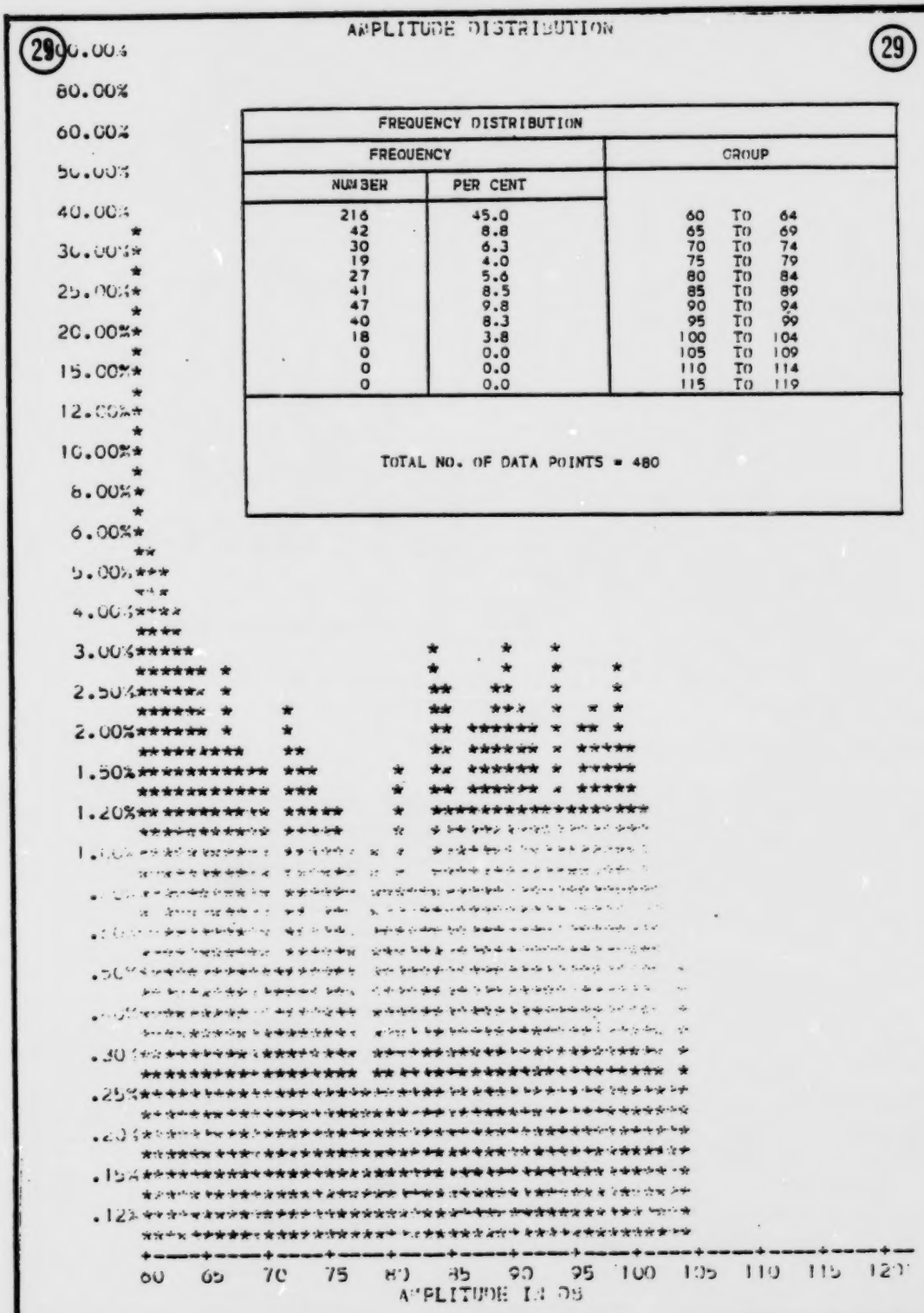
MIN. COMP. = 60 DB MAX. COMP. = 104 DB
ARITHMETIC MEAN = 73 DB
STD. DEVIATION = 14 DB
VARIANCE =196 DB

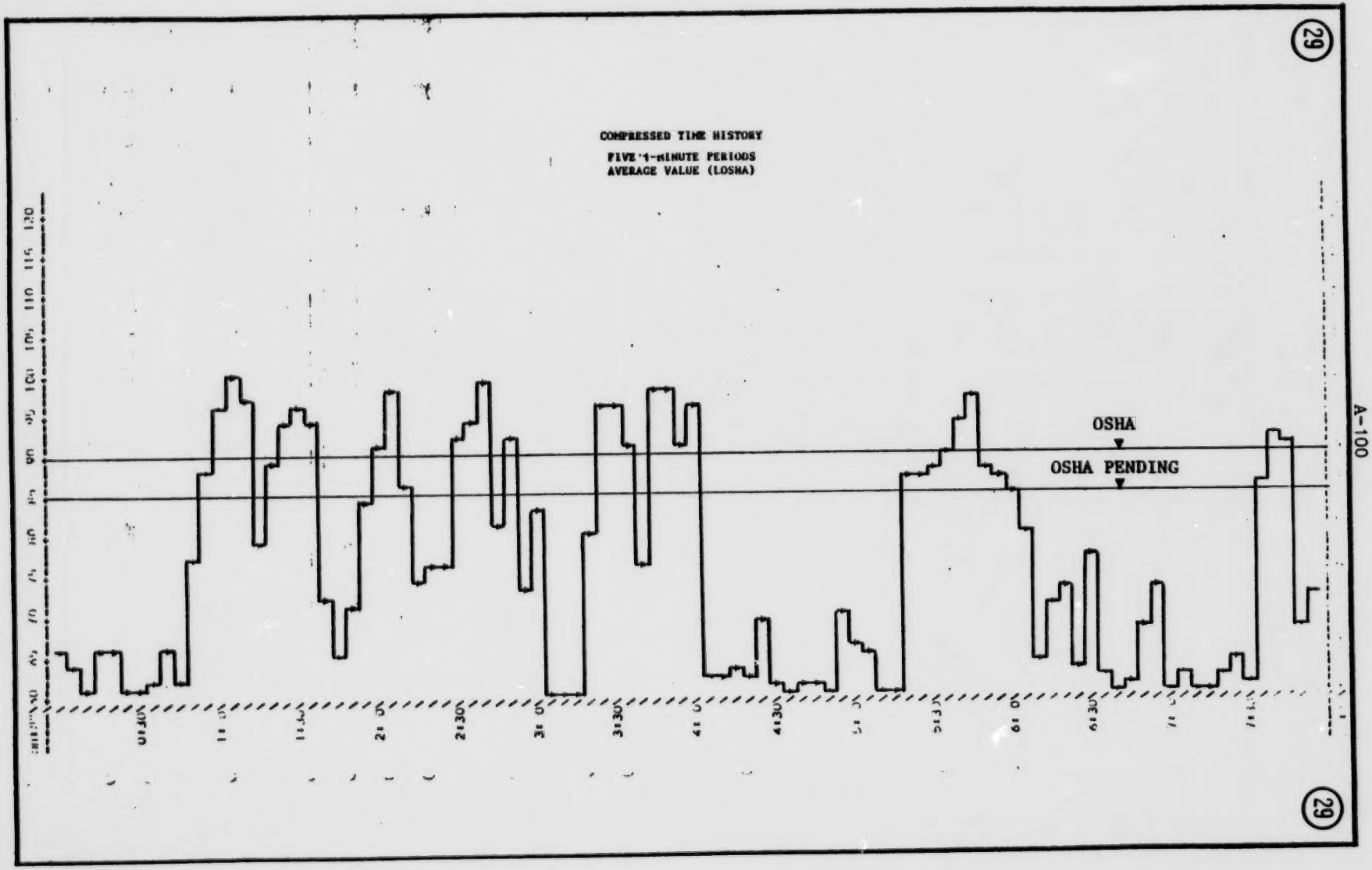
AMPLITUDE DISTRIBUTION

29 29

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
216	45.0	60 TO 64
42	8.8	65 TO 69
30	6.3	70 TO 74
19	4.0	75 TO 79
27	5.6	80 TO 84
41	8.5	85 TO 89
47	9.8	90 TO 94
40	8.3	95 TO 99
18	3.8	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




29
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
29

30

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1216   60   64    4    1
     491     115200  480
  61  60  60  60  62  60  60  61  60  60  60  61  60  60  60  62
  62  60  60  60  60  62  71  61  60  61  62  62  60  62  60  60
  61  60  60  61  69  60  67  60  67  60  60  60  60  62  62  66
  73  60  82  83  84  90  90  90  89  90  89  98 100  98  99 100
  99  99 101 100  95  86  60  75  60  84  77  82  83  92  94  84
  88  92  94  92  97  93  91 101  93  88  91  98  98  97  72  84
  76  63  61  60  70  61  60  60  60  61  66  74  60  75  73  65
  81  75  93  68  70  74  97  92  85  98  97  98  97  95  93  73
  76  77  87  77  66  62  60  60  61  60  63  70  70  60  63  60
  64  86  85  89  90  95  92  92  82  87  96  97  98  97 100 100
  97  79  60  60  60  60  60  60  61  60  60  78  78  60  60  60
  60  60  60  60  60  60  65  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  80  92  94  97  97  95  90  96  95
  90  95  96  92  84  89  64  70  60  60  60  60  61  69  89  96
  96  95  96  97  93  98  92  87  86  85  85  86  80  82  82  85
  87  85  90  73  62  65  65  60  60  62  60  60  61  60  60  60
  61  63  61  63  63  64  62  63  60  60  60  60  60  60  63  60
  60  60  66  60  60  60  60  60  60  62  60  60  60  60  61  60
  62  62  60  60  60  64  60  65  71  66  66  61  60  60  60  60
  61  63  61  60  60  60  60  66  60  60  60  60  60  60  61  60
  65  87  89  89  89  72  85  84  85  85  87  87  86  89  86  86
  87  89  99  97  90  82  86  96  92  95  98  92  94  77  93  93
  60  60  60  84  86  85  85  85  85  85  85  85  86  85  60  61
  60  60  60  60  60  60  60  60  60  75  60  60  60  60  60  60
  60  60  60  60  60  61  60  60  69  85  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  66  72  64  76
  79  60  61  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  61  60  60  60  60  60
  60  60  60  60  60  60  73  69  88  88  87  88  89  94  92  92
  92  91  93  92  77  61  64  60  62  61  67  61  63  60  66  78
%EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 23/07/79
ENTER SITE CODE (5 CHARS) : CC205

ENTER USER CODE (4 CHARS) : 4350

 ENTER JOB CODE (3 CHARS) : 272
```

```
   DATA LOGGED :23 JULY 1979          DATA ANALYZED : 17 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : CC205
SERIAL NUMBER : 1216                       JOB CODE : 272
     BASELINE : 60 DB                      USER CODE : 4350
DYNAMIC RANGE : 64 DB                      THRESHOLD :  60 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0               STANDBY TIME =   0: 2: 2
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

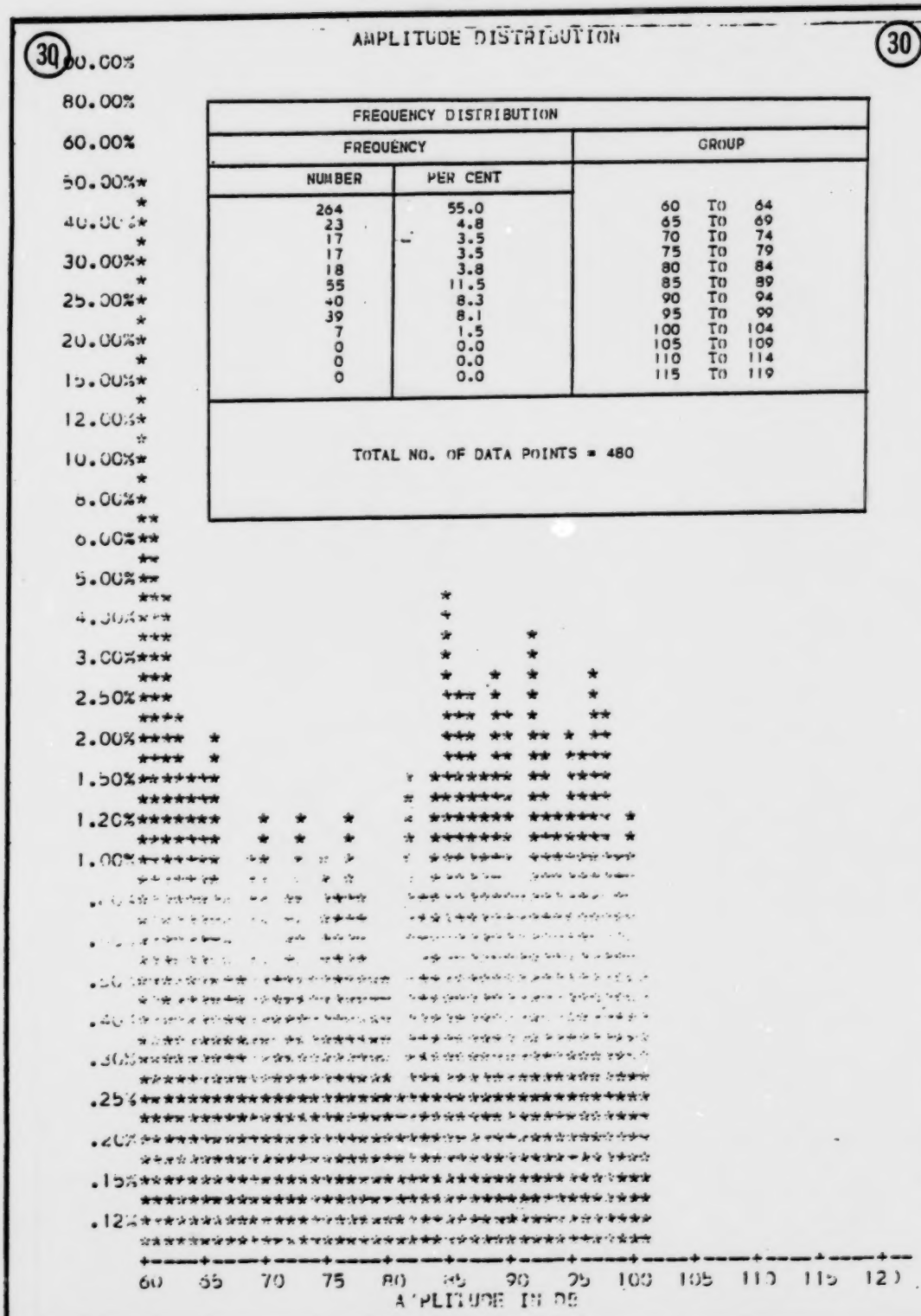
TIME	LOSHA		NOISE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	78.0	78.0	2.360	2.36
2	91.1	87.2	14.619	16.98
3	88.4	87.6	9.904	26.97
4	88.2	87.8	9.757	36.73
5	69.3	86.3	.708	37.44
6	86.4	86.3	7.625	45.06
7	72.1	85.4	1.039	46.10
8	79.9	84.9	3.074	49.18

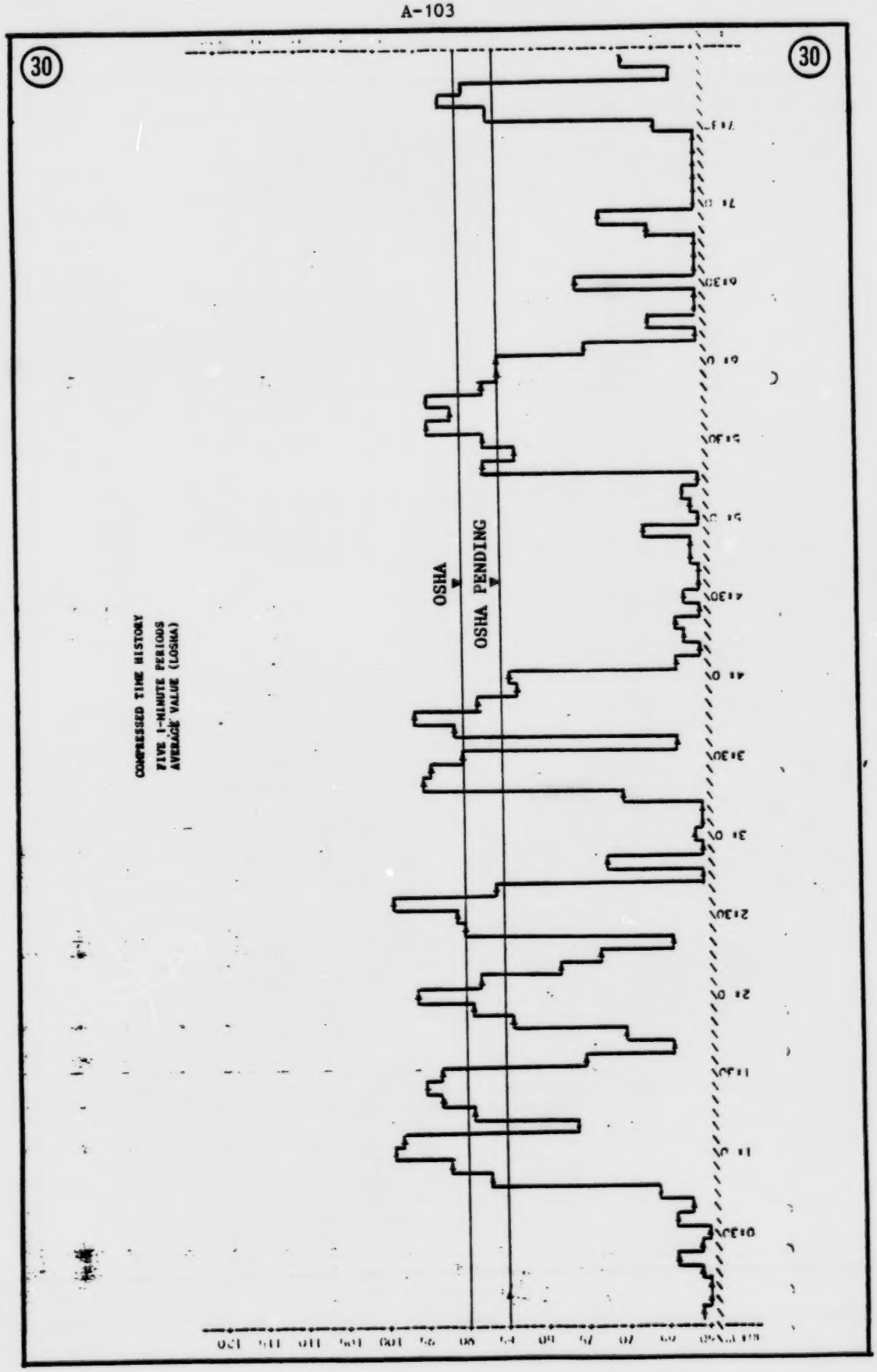
```
MIN. COMP. =  60 DB                MAX. COMP. = 101 DB
ARITHMETIC MEAN =  71 DB
STD. DEVIATION =  14 DB
VARIANCE =196 DB
```

AMPLITUDE DISTRIBUTION

(30) (30)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
264	55.0	60 TO 64
23	4.8	65 TO 69
17	3.5	70 TO 74
17	3.5	75 TO 79
18	3.8	80 TO 84
55	11.5	85 TO 89
40	8.3	90 TO 94
39	8.1	95 TO 99
7	1.5	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119
TOTAL NO. OF DATA POINTS = 480		




30
30
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

31 31

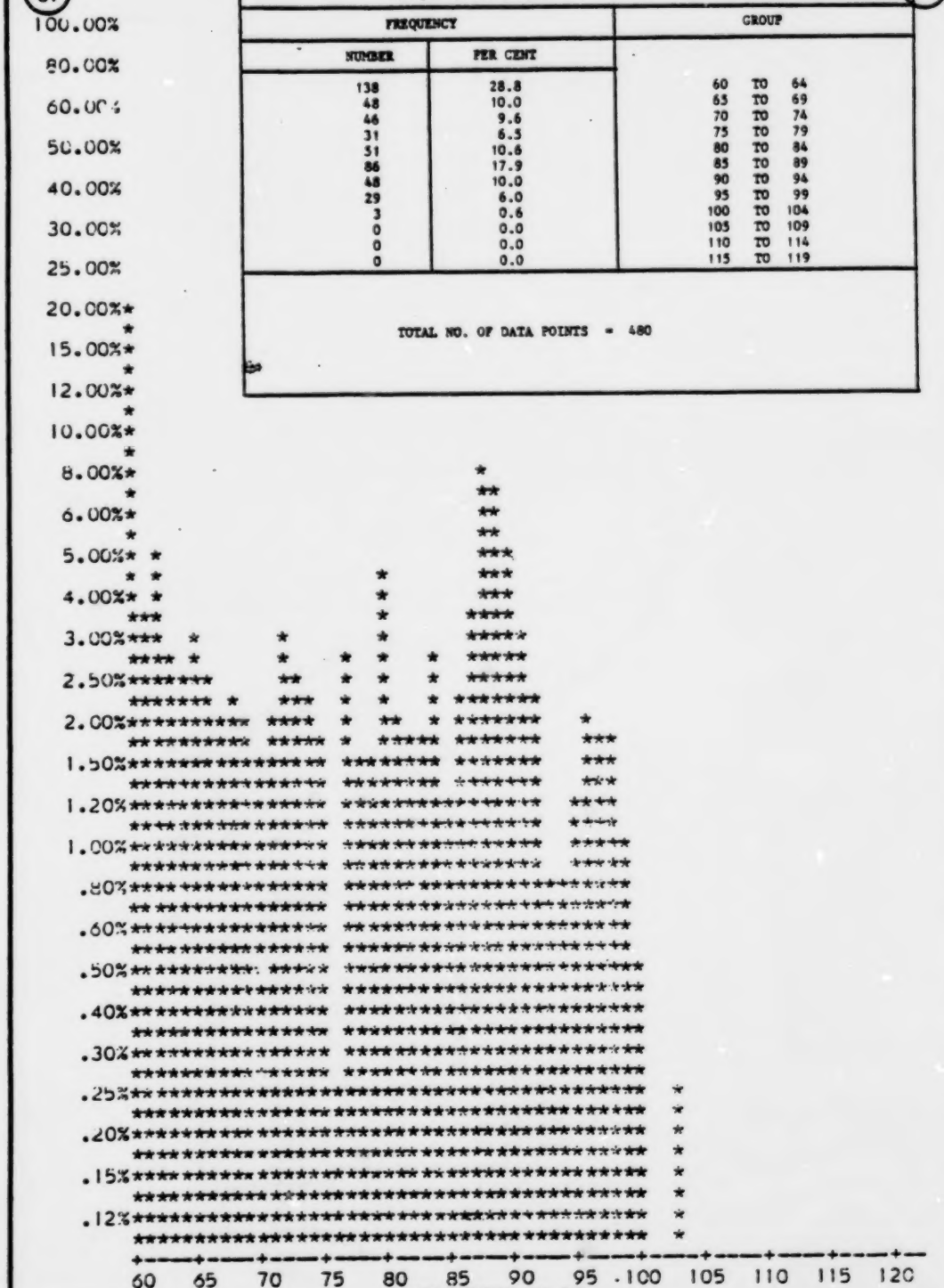
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1226  60  64   4   1
     160    115200  480
  61  60  62  60  66  60  60  60  66  66  77  64  62  60  69  72
  63  63  60  60  62  78  79  78  77  77  68  71  71  74  72  71
  62  60  60  60  62  63  64  60  60  60  60  60  69  63  70  65
  62  83  95  96  95  96  96  97  97  98  96  96  95  98 100 103
  99  98  97  98  97  97  99  99  93  98  91  69  60  60  64  60
  61  60  60  61  60  64  60  61  61  60  60  64  62  60  60  60
  60  62  60  60  73  72  60  60  61  60  74  60  60  61  69  73
  67  73  60  63  65  62  60  65  63  61  60  63  60  61  60  60
  67  65  63  63  62  60  62  72  65  65  73  74  69  72  84  77
  80  80  81  83  82  88  84  86  82  83  88  89  89  88  89  88
  89  92  90  81  82  84  77  77  81  88  90  86  82  84  89  89
  82  80  85  83  73  60  60  72  87  60  72  74  91  95  90  80
  78  69  60  60  60  60  60  60  60  60  87  66  84  80  60  60
  60  86  99  85  60  60  60  65  72  60  60  60  91  80  87  97
  77  62  60  61  62  60  60  60  60  66  60  60  60  61  67  94
  78  62  71  64  67  67  63  96  94  98  93  74  67  90  96  86
  66  60  60  60  60  60  77  88  87  88  88  87  87  87  87  87
  69 100  89  89  91  97  89  71  65  75  72  68  61  60  60  64
  62  67  62  70  68  72  73  62  62  70  74  66  69  68  61  65
  64  72  78  77  75  67  72  71  65  74  68  66  63  64  64  62
  66  75  79  71  73  65  69  76  74  77  65  68  70  75  80  92
  89  66  92  90  90  90  90  89  90  87  91  92  95  94  93  92
  87  80  80  80  80  82  86  86  88  89  89  98  89  90  92  89
  89  91  88  88  88  88  89  91  88  88  88  88  89  89  88  88
  90  87  88  85  86  87  86  86  88  91  84  89  89  60  60  75
  70  72  85  90  88  92  88  88  89  89  90  91  86  90  90  89
  90  92  88  88  90  91  92  90  90  87  87  90  89  86  60  79
  61  60  77  61  70  71  66  60  60  91  84  83  80  81  85  84
  80  78  79  80  80  80  83  84  82  83  84  86  81  80  79  81
  84  80  84  79  81  88  89  68  75  68  73  73  96  91  75  73
%EOF


ENTER LOG DATE (DD/MM/YR) : 12/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4089

 ENTER JOB CODE (3 CHARS) : 281


   DATA LOGGED :12 JULY 1979          DATA ANALYZED : 12 SEPT 1979
        LOGGER : DL-301/26                  SITE CODE : CC210
SERIAL NUMBER : 1226                        JOB CODE : 281
      BASELINE : 60 DB                      USER CODE : 4089
DYNAMIC RANGE : 64 DB                      THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 0:40


          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                        NDOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      84.1      84.1          5.553      5.55
   2      88.2      86.4          9.692     15.25
   3      82.5      85.3          4.433     19.68
   4      81.7      84.6          3.941     23.62
   5      85.5      84.8          6.677     30.30
   6      83.7      84.6          5.225     35.52
   7      88.5      85.3         10.127     45.71
   8      84.0      85.2          5.434     51.14
MIN. COMP. =  60 DB              MAX. COMP. = 103 DB
ARITHMETIC MEAN =  76 DB
STD. DEVIATION =  13 DB
VARIANCE =168 DB
```

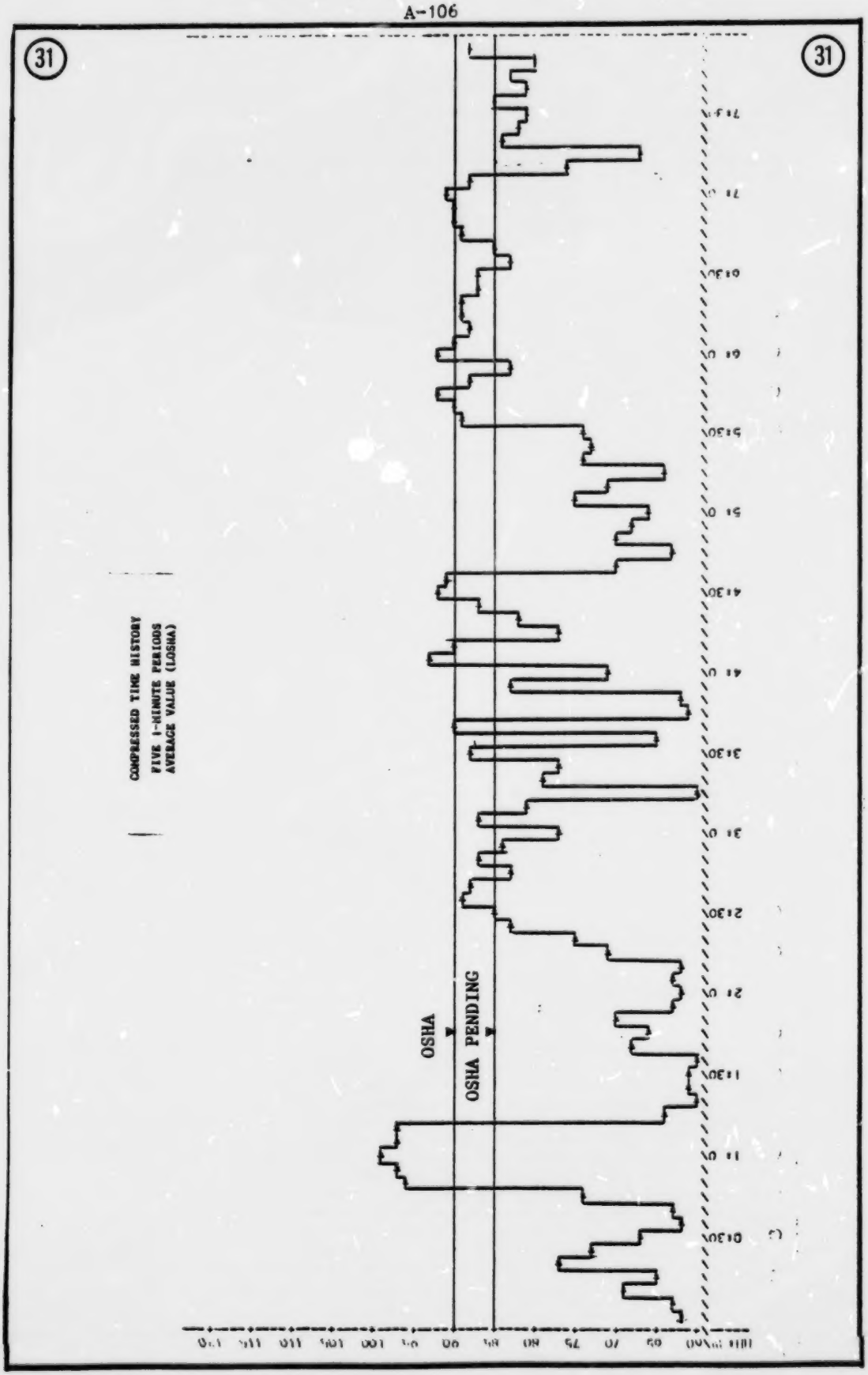
(31)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
138	28.8	60 TO 64
48	10.0	65 TO 69
46	9.6	70 TO 74
31	6.5	75 TO 79
51	10.6	80 TO 84
86	17.9	85 TO 89
48	10.0	90 TO 94
29	6.0	95 TO 99
3	0.6	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

(31)




31
31
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
01:30
1 0
1:30
2 0
2:30
3 0
3:30
4 0
4:30
5 0
5:30
6 0
6:30
7 0
7:30

(32)

PLACE TAPE IN READY MODE AND TYPE A "SPACE" AND A "RETURN"
1 26 60 1219 60 64 4 1
50 115200 60 0

64	60	60	60	60	65	61	60	60	62	60	63	61	60	60	71
60	70	72	73	61	70	70	62	64	62	64	71	73	62	73	73
69	72	73	89	90	89	99	101	100	101	102	101	99	102	101	100
97	92	87	82	101	101	91	91	91	91	93	99	102	100	96	101
94	101	103	95	96	96	95	94	81	94	85	85	86	81	90	95
92	90	93	90	92	90	91	90	93	96	100	97	96	95	96	100
105	104	104	96	94	103	102	102	104	104	95	104	94	103	103	97
104	104	101	104	104	98	99	102	102	103	103	99	95	95	95	102
100	102	102	102	97	97	87	94	104	105	105	101	105	98	95	95
95	96	97	102	106	105	104	105	105	99	98	72	73	73	70	87
66	60	60	62	71	70	60	62	76	91	92	89	96	104	104	96
97	92	86	83	84	87	90	86	83	93	99	94	93	100	105	107
104	98	92	95	81	74	60	63	61	65	81	84	75	81	84	94
82	82	79	83	80	85	89	84	84	84	91	92	97	78	74	69
79	69	60	69	64	70	68	67	85	87	88	86	87	86	90	98
89	88	89	89	83	88	88	86	84	82	81	79	77	76	82	76
77	84	82	74	79	74	80	81	78	86	93	91	75	76	75	69
69	68	60	60	61	60	60	60	65	60	67	72	63	63	61	60
63	62	71	60	60	60	60	61	61	60	62	60	64	60	60	61
69	72	67	62	77	81	93	91	81	81	77	78	78	79	83	81
84	82	81	80	80	82	80	80	82	81	80	80	80	80	80	80
80	80	80	82	81	79	80	80	81	80	81	80	80	83	81	81
81	80	80	81	80	81	80	99	104	97	104	104	103	104	99	96
86	86	86	86	86	86	87	87	86	99	104	104	104	104	104	104
101	85	87	86	85	85	85	85	86	85	85	85	87	85	85	85
85	85	86	85	86	86	85	86	86	86	95	104	105	97	85	86
83	84	84	86	87	85	77	79	75	80	79	77	74	74	76	77
78	77	85	86	82	85	85	85	84	87	83	82	79	78	78	83
85	77	91	88	73	75	69	78	75	74	75	79	68	74	84	98
90	96	101	96	94	93	96	85	90	69	60	83	73	95	86	88

*EOF

(32)

ENTER LOG DATE (DD/MO/YR) : 13/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4155

ENTER JOB CODE (3 CHARS) : 010

DATA LOGGED :13 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1219
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 12 SEPT 1979
SITE CODE : CC210
JOB CODE : 010
USER CODE : 4155
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:12

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 Db / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	OSHA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	91.1	91.1	14.475	14.47
2	98.7	95.9	41.903	56.38
3	97.9	96.6	37.258	93.64
4	90.3	95.5	13.113	106.75
5	72.9	94.1	3.076	109.82
6	81.9	93.0	4.075	113.90
7	95.	93.4	27.033	140.93
8	86.	92.9	7.754	148.68

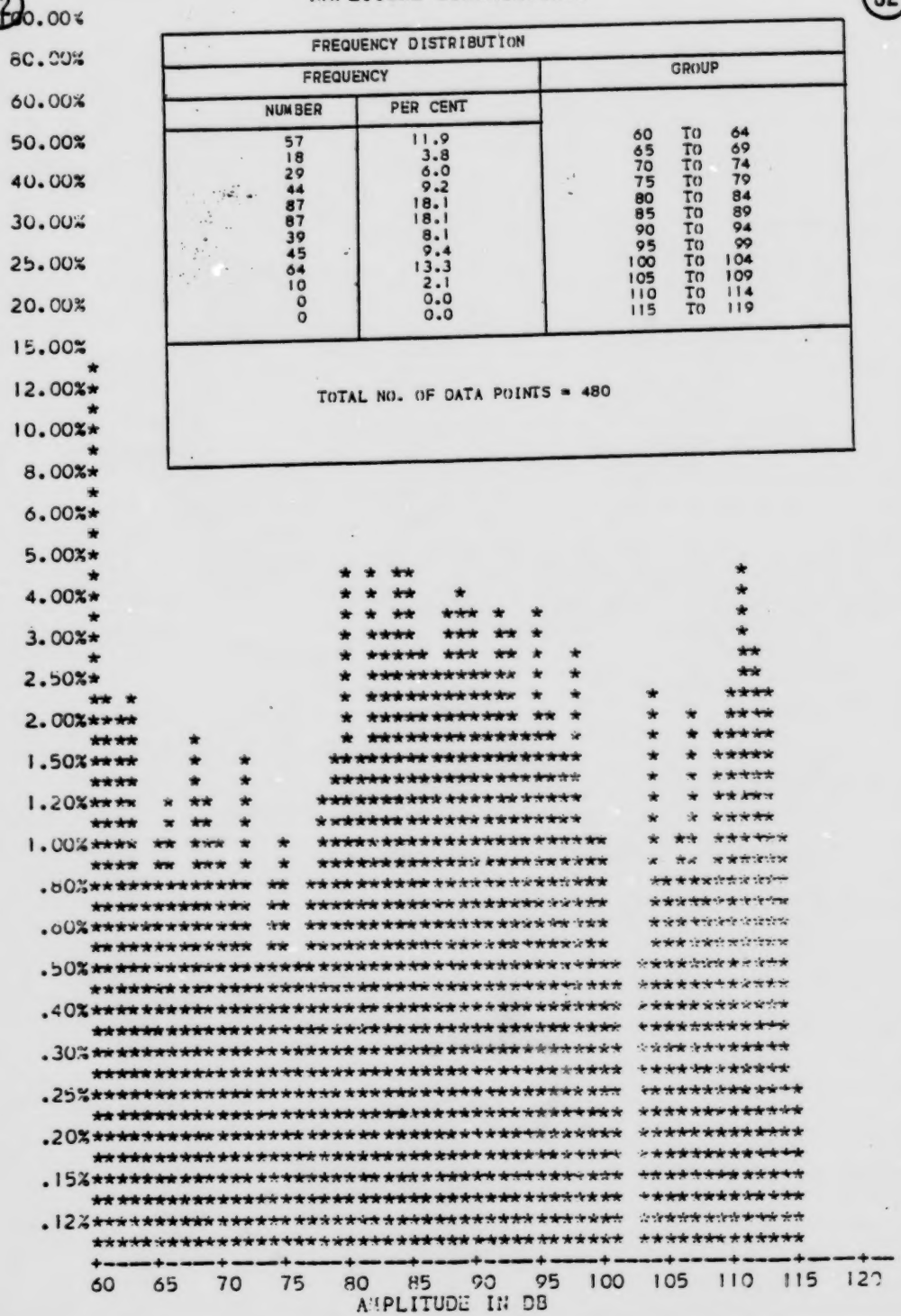
MIN. COMP. = 60 DB MAX. COMP. = 107 DB
ARITHMETIC MEAN = 84 DB
STD. DEVIATION = 13
VARIANCE = 172

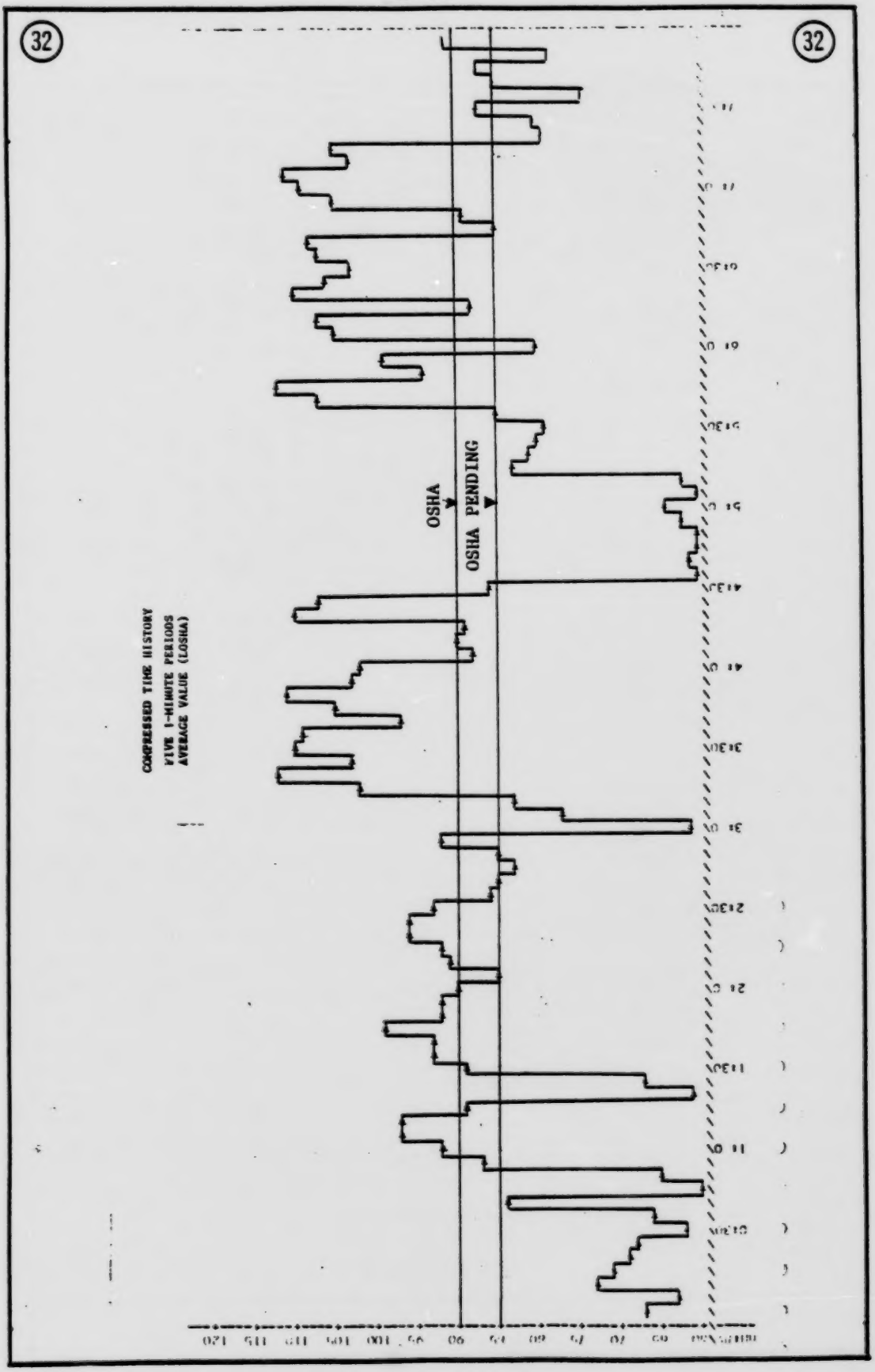
(32) AMPLITUDE DISTRIBUTION (32)

FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
57	11.9	60 TO 64
18	3.8	65 TO 69
29	6.0	70 TO 74
44	9.2	75 TO 79
87	18.1	80 TO 84
87	18.1	85 TO 89
39	8.1	90 TO 94
45	9.4	95 TO 99
64	13.3	100 TO 104
10	2.1	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




32
32
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
120
115
110
105
100
95
90
85
80
75
70
65

(33)

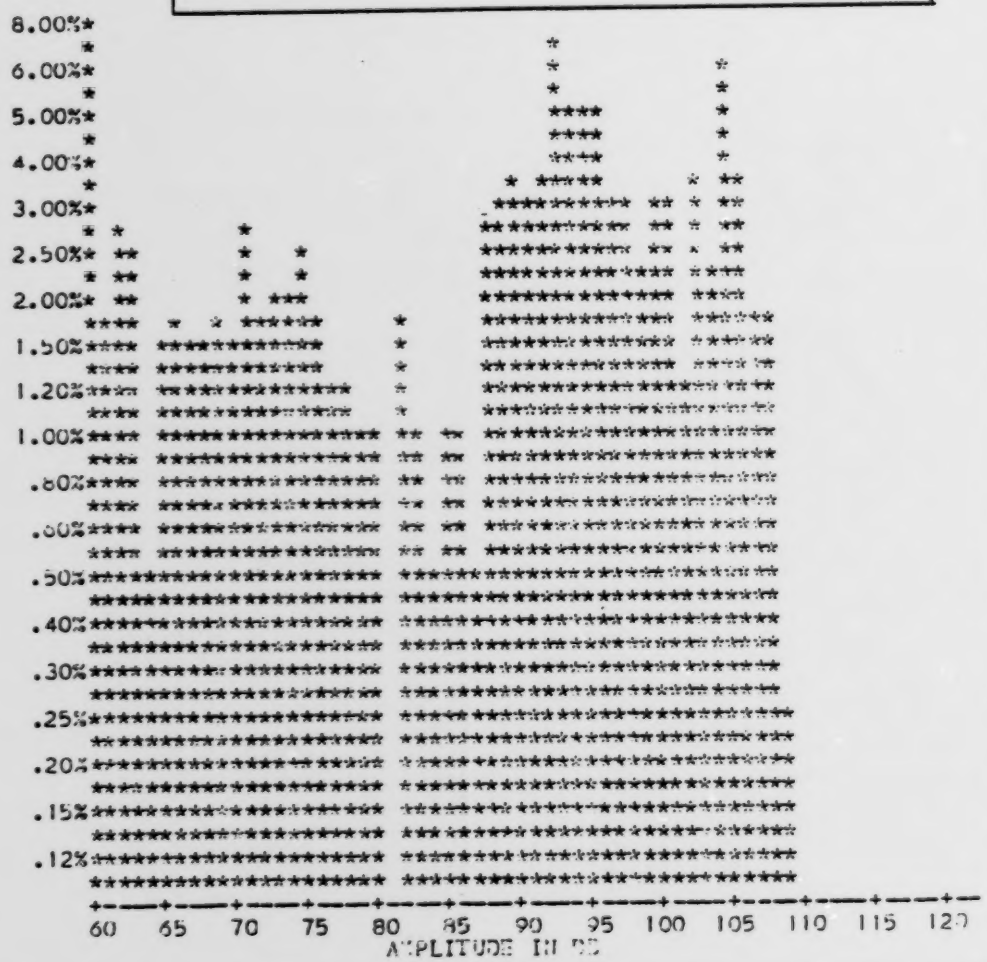
```
PLACE TAPE IN MODE 3, THEN TYPE A <RETURN> AND A <LINEFEED>
  1  26  60  120  65  64   4   1
     94      115200  480
 65  60  60  60  71  60  65  60  60  74  77  63  77  73  76  69
 73  74  73  67  76  67  70  79  76  79  85  91  90  92  91  91
 91  96  97  98  97  98  96  97  93  94  97  86  73  71  72  60
 65  68  60  60  67  67  62  76  63  82  75  77  75  79  82  64
 80  74  65  82  82  78  71  62  60  66  75  62  76  68  65  78
 75  75  73  74  71  69  90  86  89  90  87  95 103  97  93 105
103 105 105 103 107 106 109 103 107 107 100  83  68  86  90 103
108 103 107 107 105 106 108 107 103 107 109  97  80  80  82  69
 69  64  72  66  72  66  69  75  63  71  83  85  70  60  67  63
 70  60  65  60  61  69  75  76  77  81  86  68  73  62  71  66
 71  73  75  78  90  98  97 101  98  99 100 100  97  99 100  99
 95  91  92  88  89  89  88  89  83  88  89  88  89  89  88  90
 91  90  92  96  94  95  94  93  97  95 100 102  94  93  95  96
 95  95  96  97  96  93  96  96  93  93  93  96  94  94  94  93
 95  94  96  96  94  92  90  91  93  92  92  93  91  91  89  88
 89  85  90  89  93  96  95  97  96  98  99  98  89 100  98  97
 95  94  95  95  94  93  94  99  89  96  74  71  82  60  60  61
 60  60  60  63  61  66  71  63  62  61  62  61  69  63  60  60
 60  60  61  60  61  60  62  60  60  60  62  72  67  60  63  69
 68  60  71  70  72  84  90  96  97  82  85  93  96  99  92  92
 92  93  93  87  93  93  94  96  96  90  89  93  91  93  91  92
 98  94  96  94  93  94  92  93  84  96 100  92  90  92 106 105
 95  93 101 105 106 104 102 105 104 101 101 105 106 102  93  94
103 106 106 105 105 103 101 105 105 102  92  95 103 106 105 105
105 101 103 104 105 103  96  94 103 106 106 103 106 104 101 105
103 105  99 100  94  93 104 104 106 104 106 103 100 104 106 106
 96  90  98 105 106 105 103 105 101 100 105 105 104  95  93 102
105 100 103  99 101  95  60  76  77  76  62  74  71  63  64  74
 78  75  70  86  72  79  69  80  75  93  96  88  96 101 101 100
101  95  74  91  73  78  82  83  95  85  93  95  86  73  83  90
%EOF


ENTER LOG DATE (DD/MM/YR) : 13/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4089

 ENTER JOB CODE (3 CHARS) : 281


   DATA LOGGED :13 JULY 1979          DATA ANALYZED : 12 SEPT 1979
        LOGGER : SD-301/26                 SITE CODE : CC210
 SERIAL NUMBER : 1224                       JOB CODE : 281
      BASELINE : 60 DB                     USER CODE : 4089
 DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 DB
 SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
 TEST DURATION =   8: 0: 0           STANDBY TIME =   0: 0:23

          TIME HISTORY ANALYSIS

 NOISE EXPOSURE LEVEL (N.E.L.) CALCULATIONS
 ARE BASED ON THE FOLLOWING:
 100% DOSE = 90 DB / 8 HRS
 EXCHANGE (DOUBLING) RATE = 5 DB
 THRESHOLD (CUTOFF) LEVEL = 80 DB
   NUMBER OF COMPUTATIONS = 480
 PERIOD =  1 MINUTES

 TIME          LOUD                    QUIET
 HOUR     CURRENT  CUMULATIVE     CURRENT  CUMULATIVE
    1        80.6       80.6        1.787       1.79
    2        99.5       99.6       46.457      54.24
    3        92.0       96.7       17.897      72.14
    4        93.6       96.4       20.473      92.62
    5        89.6       93.7       11.723     104.35
    6        95.6       94.0       26.916     131.26
    7       103.0       96.2       75.922     207.1
    8        96.1       96.2       29.363     236.47
 MIN. COMP. =  80 DB              MAX. COMP. = 109
 ARITHMETIC MEAN =  96 DB
 STD. DEVIATION =  15
 VALIDITY =73
```

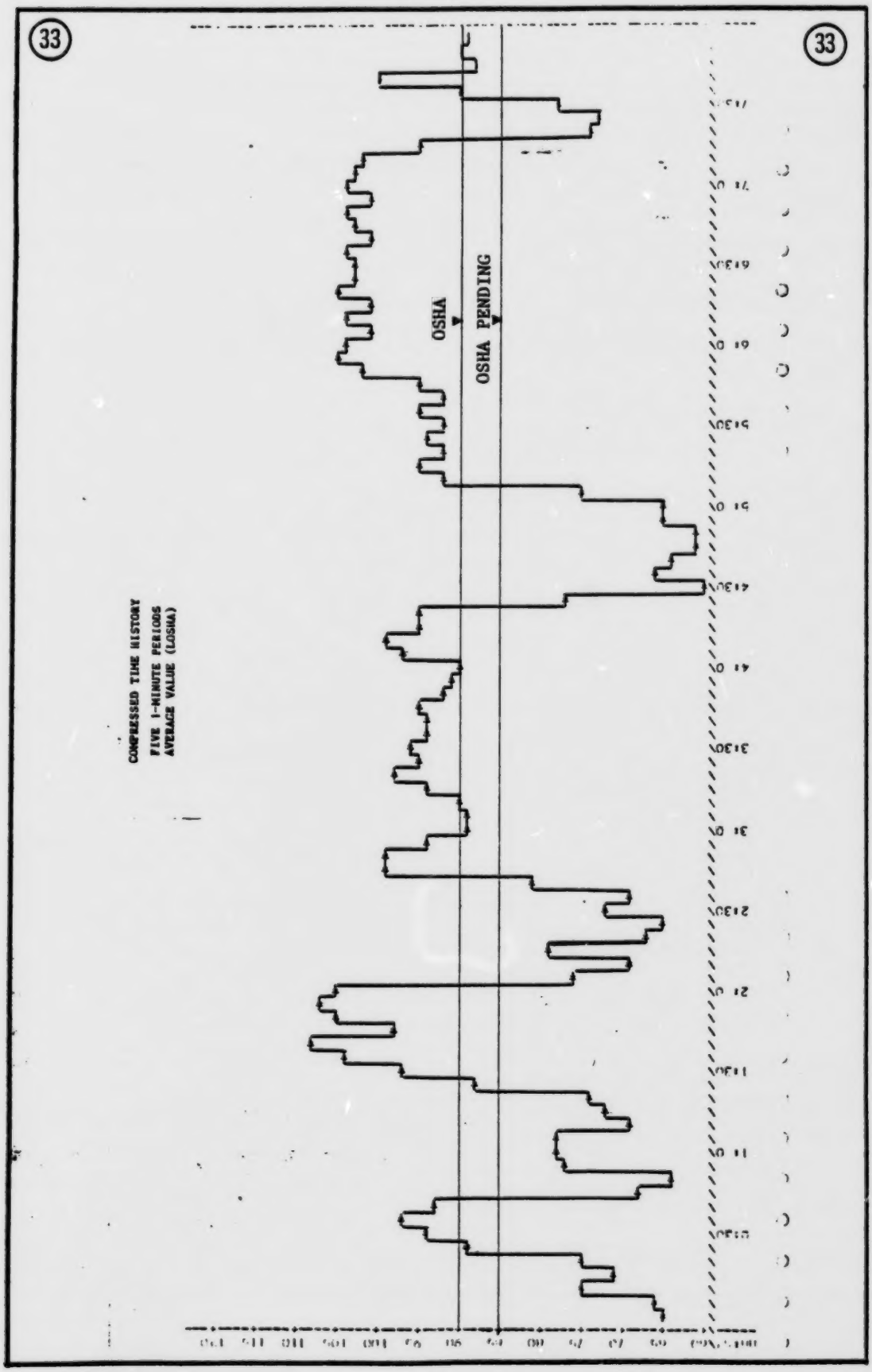
AMPLITUDE DISTRIBUTION

(33) (33)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
60	12.5	60 TO 64
32	6.7	65 TO 69
40	8.3	70 TO 74
31	6.5	75 TO 79
17	3.5	80 TO 84
33	6.9	85 TO 89
86	17.9	90 TO 94
74	15.4	95 TO 99
53	11.0	100 TO 104
54	11.3	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




33
33
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

34

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

34

```
  1  26  80  1213   60   64    4    1
     240     115200  480
 61  62  60  60  60  61  60  61  60  60  70  63  60  60  60  64
 60  62  61  60  60  60  60  60  61  60  60  63  67  75  80  60
 81  90  94  92  92  90  91  91  90  90  93 101 100 101 100 100
101  95  95  95  81  80  60  60  60  60  60  60  60  60  60  60
 87  93  88  86  86  86  87  86  97  80  95  97  94  93  90  92
100  99 100 101 101 100  99  96  97  87  70  77  95  86  87  86
 70  75  83  85  84  81  60  60  72  89  97  86  84  93 112 109
 95  97  90  60  65  79  66  62  66  60  61  60  62  63  64  67
 89  94 102 107 107 104 101 109 109 108 108  99 106 109 106  99
102 107 107 101  95  92  91  93  96  95  94  91  92  92  90  93
 95  95  93  95  95  92  91 108 110 109 109 100 102 102 111 110
109 106  90  95  90  93  96  94  87  87  87  87  87  88  95 110
110 109 109 102  89  91 106 111 111 110 109 101 112 111 110 110
106  91  93  93  90  94  91 106 111 103 101 110 109  87  88  88
 88  89  88  79  79  89  88  95 106 111 111  96  87  88  88  89
 89  87  88  88  89  89  89  90 107 108  91  91  90  96  92 107
111 109 109 107  92  91  92  91  92  93  93  93  92  98 112 110
110 109  99  91 112  92  79  80  91  92 100  75  64  60  60  64
 63  60  73  60  63  60  60  60  60  60  60  60  60  60  61  60
 72  60  60  60  60  71  63  64  74  95  94  89  86  67  74  75
 92 111 111 108  88  60  61  64  64  68  80  88  90  89  89  88
 89  90  90  89  89  89  89  92  90 106 111 110 108 108 102  88
107 107  95 109 111 109 109  94 108 112 111 109 108  92  88  88
 88  88  89  89  88  90  91  88  89  89 111 102 111  97  89 110
103  88  89  88  88 112 113 112  91 107 112 111 110  90  90  89
 89  89 108 113 112 111 106 111 111 109 110  95  88  87  89  90
 89 109 111 110 108  89  90 112 111 111 100  93  92  94  94  92
 95  91  91  90  92  91  91  94  87  79  66  86  76  64  60  68
 60  63  64  65  60  61  81  91  94  97  82  60  60  62  60  73
 65  66  75  73  78  68  60  68  71  74  75  73  75  75  74  92
$EOF
```

ENTER LOG DATE (DD/MM/YR) : 16/07/79

ENTER SITE CODE (5 CHARS) : CC210

ENTER USER CODE (4 CHARS) :
ENTER JOB CODE (3 CHARS) : 214

DATA LOGGED :16 JULY 1979	DATA ANALYZED : 13 SEPT 1979
LOGGER : DB-301/26	SITE CODE : CC210
SERIAL NUMBER : 1213	JOB CODE : 214
BASELINE : 60 DB	USER CODE : 4695
DYNAMIC RANGE : 64 DB	THRESHOLD : 80 DB
SAMPLING RATE : 4/SEC	TOTAL SAMPLES = 115200
TEST DURATION = 8: 0: 0	STANDBY TIME = 0: 1: 0

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		MODE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	88.0	88.0	9.506	9.51
2	94.1	91.7	22.100	31.61
3	102.2	97.0	67.598	99.20
4	103.3	99.1	78.554	177.76
5	99.4	99.2	45.894	223.65
6	99.7	99.3	47.719	271.37
7	105.4	100.5	105.087	376.46
8	94.0	100.0	21.872	398.33

MIN. COMP. = 60 DB MAX. COMP. = 113 DB
ARITHMETIC MEAN = 87 DB
STD. DEVIATION = 17 DB
VARIANCE =289 DB

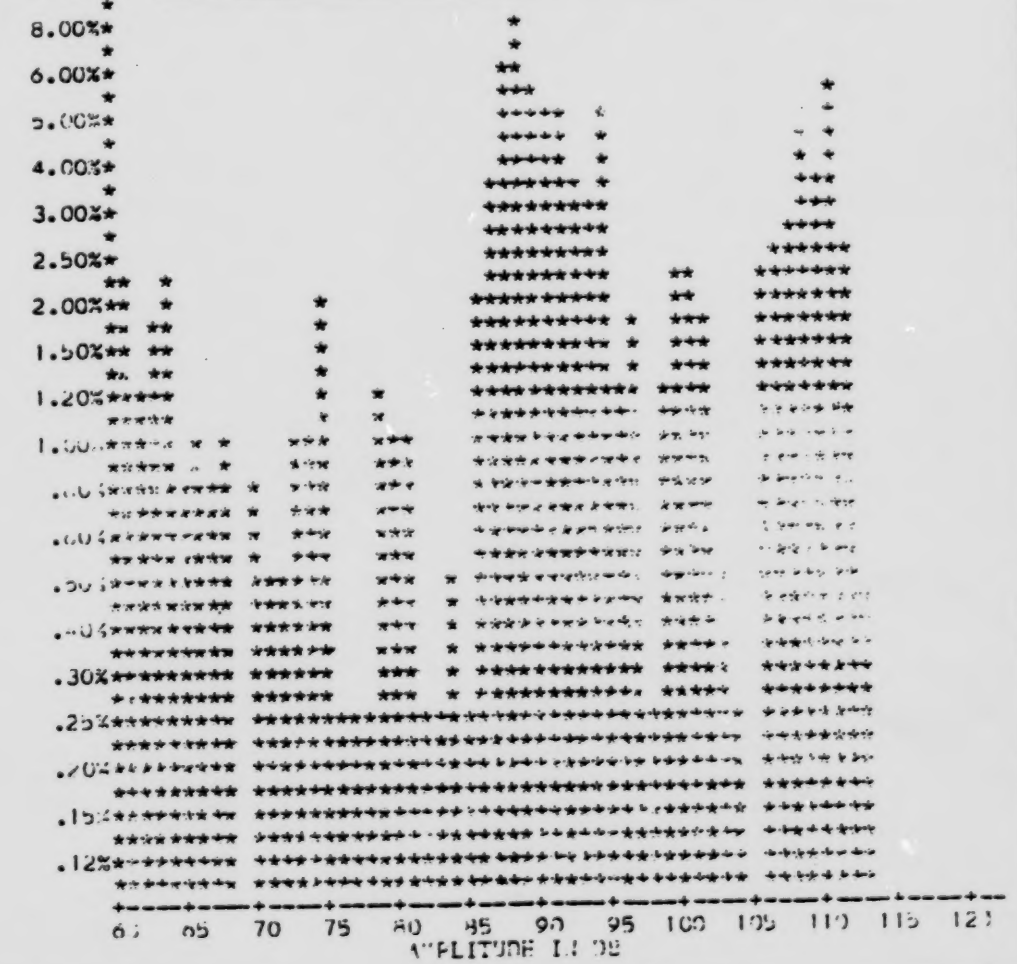
34

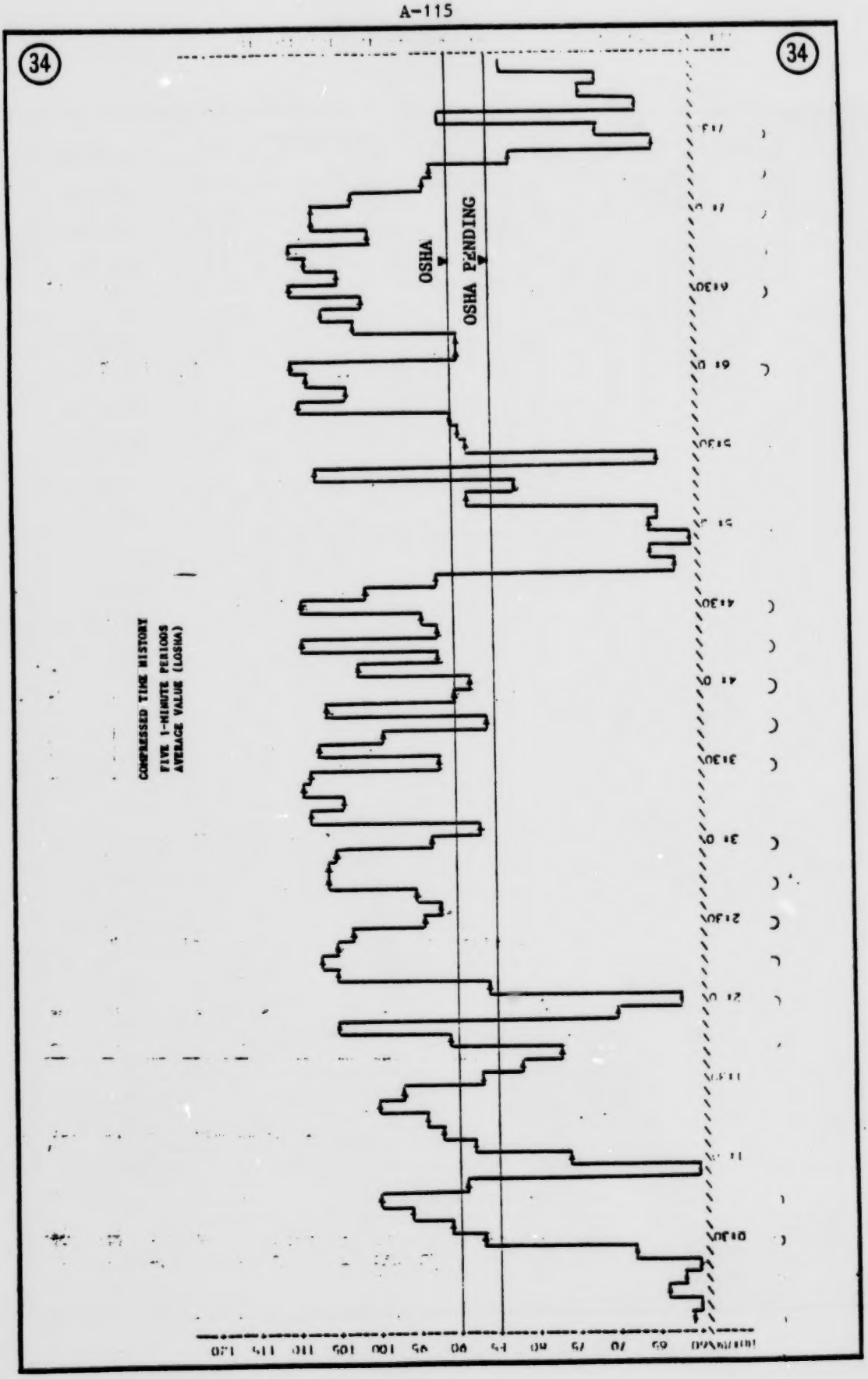
AMPLITUDE DISTRIBUTION

34

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
90	18.8	60 To 64
14	2.9	65 To 69
15	3.1	70 To 74
16	3.3	75 To 79
12	2.5	80 To 84
79	16.5	85 To 89
90	18.8	90 To 94
37	7.7	95 To 99
28	5.8	100 To 104
50	10.4	105 To 109
49	10.2	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




34
34
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

35 35

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1212 60 64 4 1

104 115200 480

73	64	60	60	60	66	62	65	60	60	60	62	63	70	80	71
78	88	93	92	93	95	89	91	91	91	91	92	92	92	93	94
95	95	92	92	92	92	92	100	98	97	98	97	97	100	99	95
100	98	80	62	60	60	60	60	88	84	85	85	72	61	60	60
61	61	60	60	60	60	61	78	77	75	[illegible]	[illegible]	70	71	65	60
62	78	69	68	63	60	74	82	81	80	74	86	91	89	[illegible]	[illegible]
66	73	69	65	77	77	77	74	71	60	61	64	63	69	64	64
67	60	65	62	66	70	67	60	66	62	61	62	64	61	64	69
66	62	62	75	60	61	70	74	91	78	87	78	91	90	93	97
90	84	70	66	77	82	67	97	97	95	76	80	73	85	72	[illegible]
73	90	88	94	96	93	94	95	88	60	60	70	87	94	94	88
85	85	85	82	87	92	85	90	84	84	84	84	82	80	80	80
81	88	94	93	93	85	87	68	60	81	90	101	106	101	100	102
94	84	80	88	90	97	95	90	91	80	90	88	95	93	96	95
89	94	89	96	95	90	85	83	86	89	88	85	85	86	89	92
93	90	86	84	84	84	84	80	91	90	87	91	92	95	93	96
96	96	97	96	91	86	92	97	96	97	96	98	96	96	96	97
96	98	96	97	100	95	95	94	92	96	96	95	95	95	95	98
96	96	96	96	94	95	94	94	95	95	96	93	95	95	93	91
99	99	97	101	97	97	93	96	99	98	98	95	97	93	94	93
94	93	95	94	101	99	98	97	95	100	102	102	104	103	94	102
101	98	101	105	100	104	103	103	102	100	103	102	101	100	96	96
91	79	60	60	61	60	60	60	73	60	75	62	60	60	64	65
64	61	60	73	66	60	63	71	61	96	96	97	94	97	100	102
100	96	101	106	103	103	104	102	102	102	102	102	103	101	100	102
104	102	103	102	103	104	102	102	102	101	103	105	103	104	104	104
105	106	105	105	105	107	105	101	102	101	102	102	102	103	102	103
102	105	107	97	87	95	97	74	69	67	60	60	60	60	60	64
60	72	72	77	60	63	64	79	72	62	68	62	60	60	68	65
69	72	79	93	95	101	101	90	96	102	97	96	96	94	90	92

SEOF

ENTER LOG DATE (DD/MM/YR) : 17/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 7610
ENTER JOB CODE (3 CHARS) : 281

DATA LOGGED :17 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1212
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

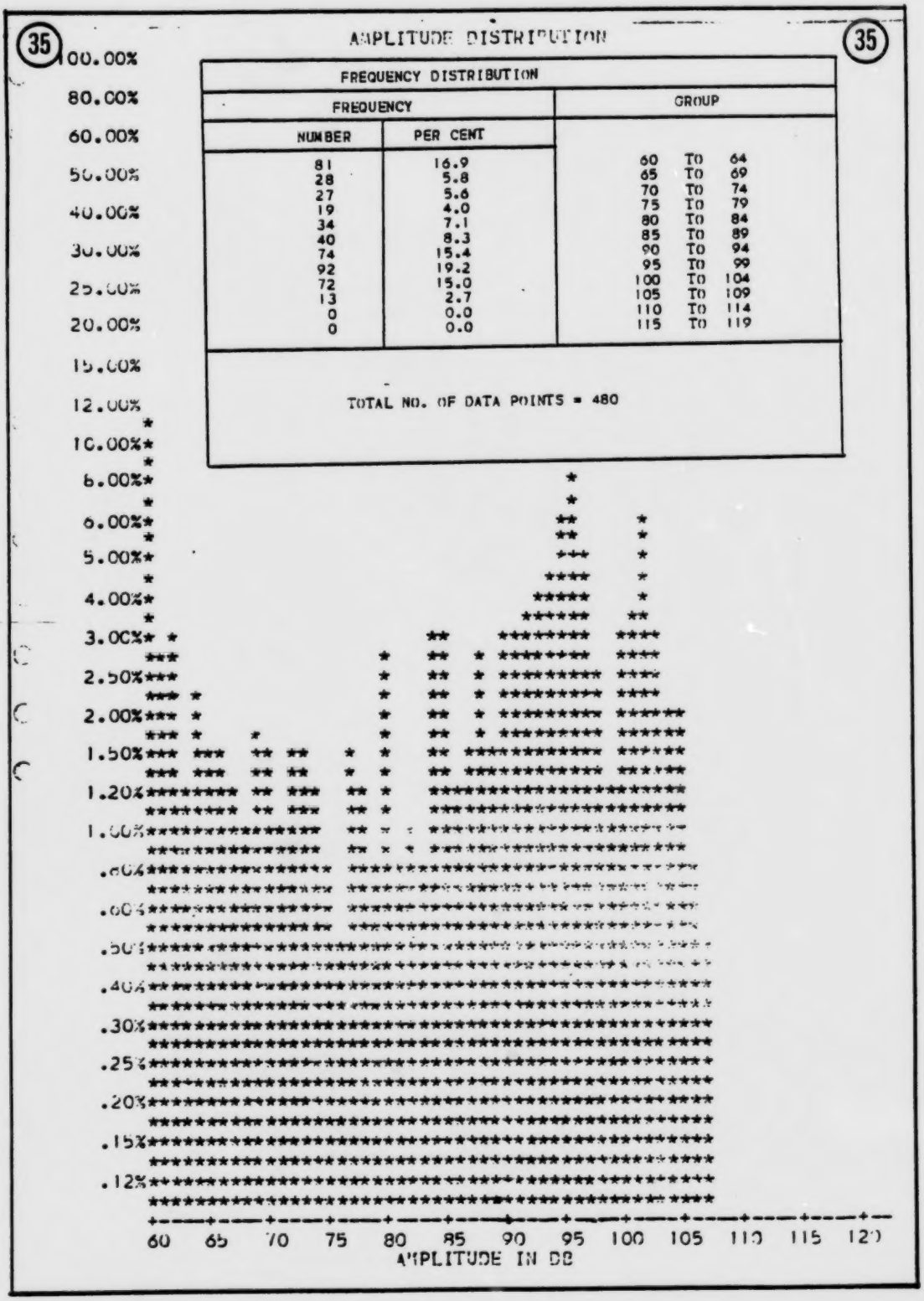
DATA ANALYZED : 14 SEPT 1979
SITE CODE : CC210
JOB CODE : 281
USER CODE : 7610
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = : 0:24

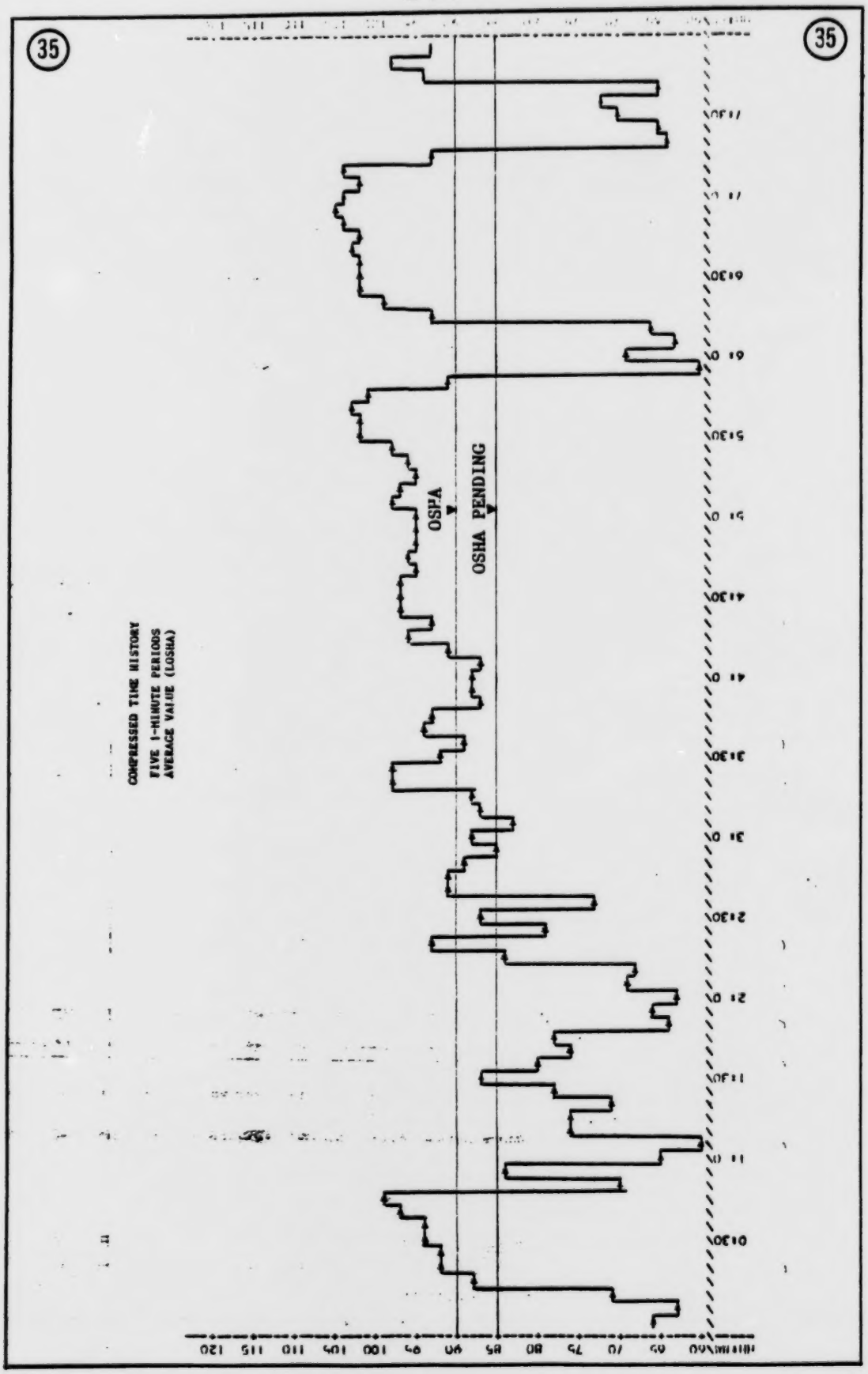
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOGHA		NOISE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	90.9	90.9	14.235	14.24
2	76.6	86.9	1.963	16.20
3	85.9	86.6	7.061	23.26
4	91.9	88.3	16.268	39.55
5	94.5	90.0	23.250	62.80
6	98.1	92.2	38.508	101.31
7	99.9	93.9	49.647	150.95
8	96.1	94.2	28.933	179.88

MIN. COMP. = 60 DB
MAX. COMP. = 107 DB
ARITHMETIC MEAN = 85 DB
STD. DEVIATION = 15 DB
VARIANCE =225 DB


35
AMPLITUDE DISTRIBUTION
35
FREQUENCY DISTRIBUTION
FREQUENCY
NUMBER
PER CENT
GROUP
81 16.9 60 TO 64
28 5.8 65 TO 69
27 5.6 70 TO 74
19 4.0 75 TO 79
34 7.1 80 TO 84
40 8.3 85 TO 89
74 15.4 90 TO 94
92 19.2 95 TO 99
72 15.0 100 TO 104
13 2.7 105 TO 109
0 0.0 110 TO 114
0 0.0 115 TO 119
TOTAL NO. OF DATA POINTS = 480
00.00%
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
6.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


35
35
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
dB(A)/60
65
70
75
80
85
90
95
100
105
110
115
120
01:30
11:00
11:30
21:00
21:30
31:00
31:30
41:00
41:30
51:00
51:30
61:00
61:30
11:30

36 36

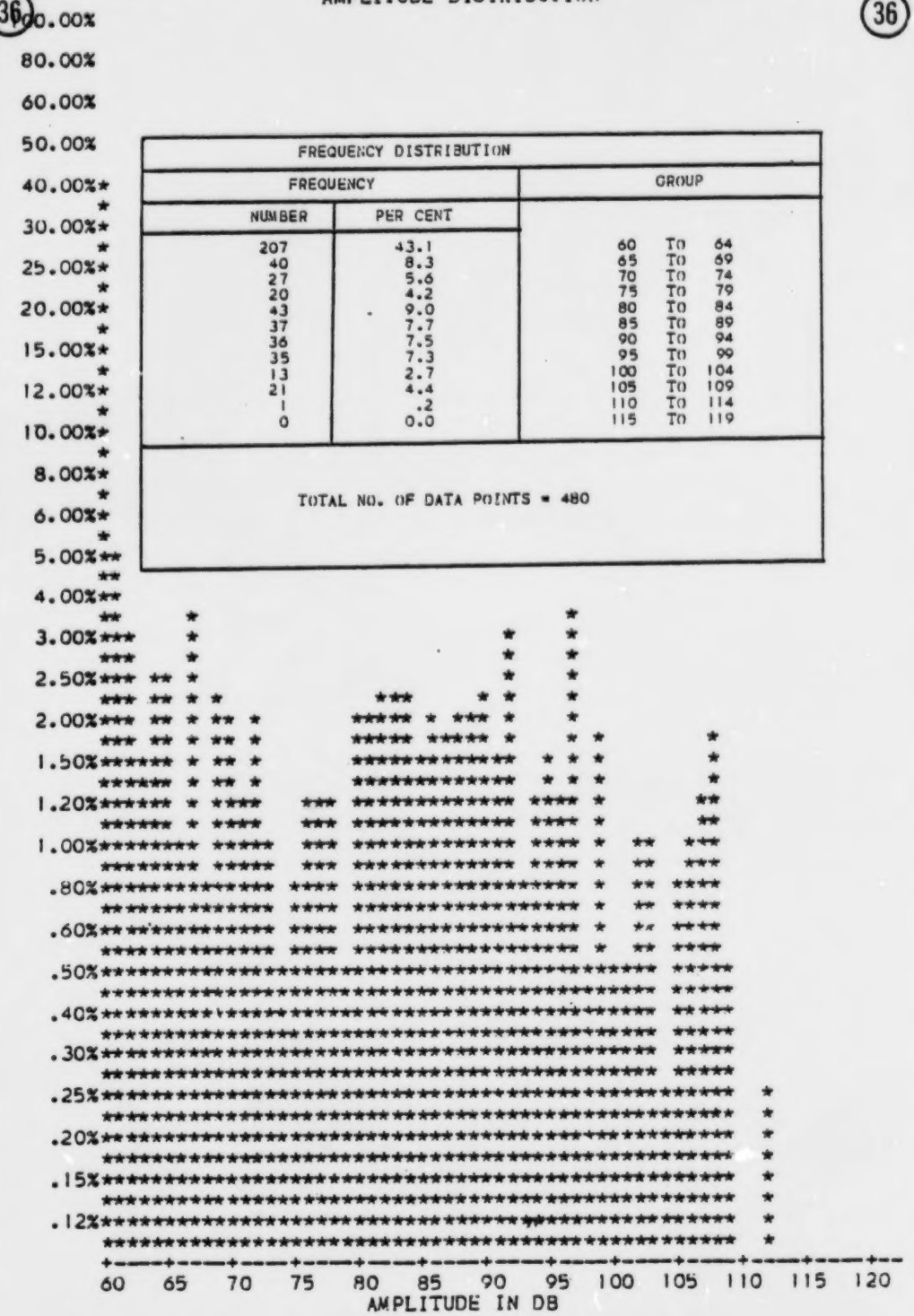
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1216   60   64    4    1
     212     115200  480
  64  60  60  61  63  69  66  67  68  68  73  75  69  60  62  66
  69  67  65  76  67  70  69  72  65  81  70  65  65  64  63  60
  61  72  60  62  60  67  69  74  72  74  73  75  86  90  90  92
  92  91  91  92  95  94  94  94  95  96  97  95  92  91  91  91
  90  94  92  91  87  90  90  92  87  89  88  96  89  83  62  60
  77  76  60  67  61  60  61  61  63  72  60  60  60  60  60  60
  60  61  60  60  60  70  61  64  71  67  60  61  60  60  60  60
  60  60  60  60  60  60  67  60  64  70  64  76  60  63  67  60
  60  60  60  60  60  60  60  60  60  67  62  60  60  60  60  69
  83  84  84  84  72  67  86  88  82  83  83  84  83  82  81  82
  85  86  84  83  88  88  89  81  78  80  87  87  85  93  95  99
 108 104 101 100  99  97  97  95  96  97  97  97  96  97  97  97
  97  98  98  97 100 107 105  96 101 106 107 109 112 108 107 106
 105 107 108 108 107 108 108 109 108 105 102 106 106 103  99  92
  92  99  99  97  97  99  97  93 103 103 103 102 102 102  99  92
  85  72  61  60  60  60  60  60  71  71  60  61  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  70  60  60  60  63  60  60  60
  60  60  60  60  62  60  60  60  60  60  60  60  60  60  60  61
  60  65  67  61  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  62  60  60  74  72  69  60  60  60  65  62  66
  60  69  61  65  83  85  85  86  88  87  86  84  82  84  92  88
  88  89  86  89  73  60  81  89  85  86  64  61  60  60  60  60
  61  65  71  68  64  60  60  61  70  82  75  78  77  78  76  83
  84  82  80  73  79  80  81  81  81  80  77  82  80  80  82  89
  84  78  64  67  60  62  67  71  79  77  78  62  60  60  60  60
  60  62  61  60  60  60  60  62  60  69  60  60  60  60  60  61
  63  60  60  65  61  60  60  60  60  60  60  60  60  67  81  70
  70  65  94  97  82  83  92  90  88  87  61  60  60  60  60  64
  60  72  64  66  62  77  89  90  92  90  92  87  86  90  95  93
%EOF


ENTER LOG DATE (DD/MM/YR) : 27/07/79
ENTER SITE CODE (5 CHARS) : 20960
ENTER USER CODE (4 CHARS) : 4195
 ENTER JOB CODE (3 CHARS) : 271


   DATA LOGGED :27 JULY 1979          DATA ANALYZED : 20 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : 20960
SERIAL NUMBER : 1216                        JOB CODE : 271
      BASELINE : 60 DB                      USER CODE : 4195
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0               STANDBY TIME =   0: 0:53

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 9  DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                      %DOSE
HOUR     CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1       84.4      84.4          5.726      5.73
   2       82.5      83.5          4.425     10.15
   3       88.5      85.6         10.084     20.24
   4      103.0      94.7         76.011     96.25
   5       64.1      93.1           .347     96.59
   6       78.7      92.0          2.612     99.21
   7       76.7      91.0          1.971    101.18
   8       82.6      90.4          4.477    105.65
MIN. COMP. =  60 DB              MAX. COMP. = 112 DB
ARITHMETIC MEAN =  74 DB
STD. DEVIATION =  15 DB
VARIANCE =225 DB
```

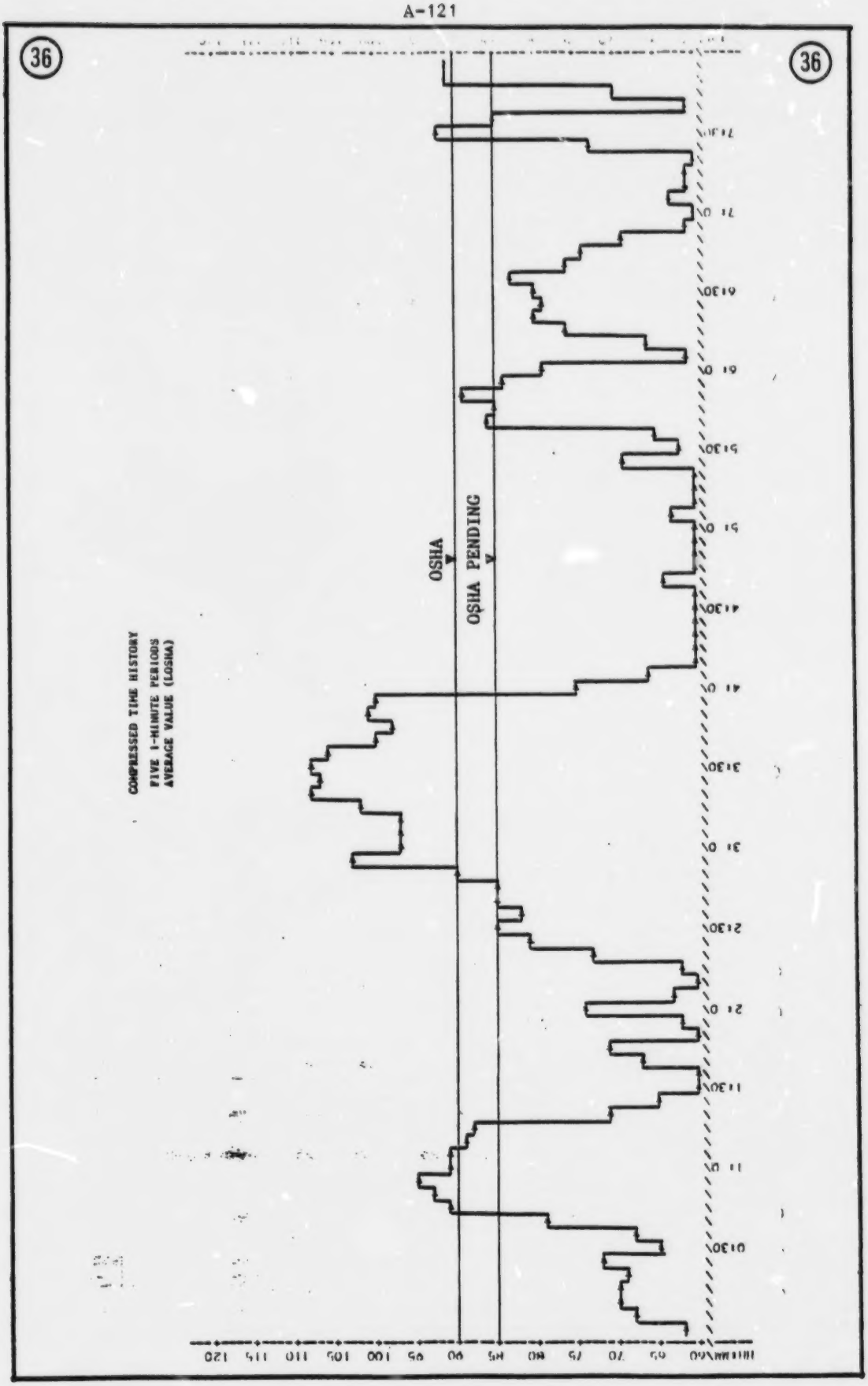
AMPLITUDE DISTRIBUTION

(36) (36)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
207	43.1	60 To 64
40	8.3	65 To 69
27	5.6	70 To 74
20	4.2	75 To 79
43	9.0	80 To 84
37	7.7	85 To 89
36	7.5	90 To 94
35	7.3	95 To 99
13	2.7	100 To 104
21	4.4	105 To 109
1	.2	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




36
36
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
dBA
120
115
110
105
100
95
90
85
80
75
70
65
0:30
1:00
1:30
2:00
2:30
3:00
3:30
4:00
4:30
5:00
5:30
6:00
6:30
7:00
7:30

37

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1224 60 64 4 1

372 111091 462

62	60	60	65	60	60	60	60	69	60	60	60	61	60	60	66
71	82	81	60	60	60	65	60	70	60	62	60	60	60	66	60
60	68	61	76	74	63	61	60	60	60	60	60	60	60	60	60
68	60	60	60	60	60	61	62	60	60	60	60	60	60	60	79
83	83	84	85	85	83	83	83	83	83	83	85	90	90	90	90
90	89	87	84	87	91	99	107	106	97	95	96	96	99	99	97
97	96	98	97	95	96	96	95	94	94	94	95	100	107	105	103
105	101	106	109	110	108	108	107	103	110	108	108	104	107	109	110
109	106	105	107	107	107	105	96	96	97	98	97	97	99	98	93
101	105	102	103	101	101	102	96	87	74	71	75	60	60	60	60
60	78	63	66	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	72	60	60	60	66	60	60	60	60	60	60	64	60	60	60
60	60	60	60	60	60	60	60	65	64	71	72	61	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	63	60	60	70
77	78	66	60	60	60	68	65	74	69	61	68	67	80	76	72
86	83	85	85	87	89	87	94	84	88	87	81	87	60	66	86
90	85	84	63	64	60	63	60	60	65	73	67	66	66	64	60
60	80	83	78	80	78	78	78	83	84	82	78	74	82	83	82
81	81	78	80	81	78	80	82	81	83	67	73	60	60	62	60
75	77	86	60	61	60	60	60	60	64	60	60	60	60	60	60
63	60	70	60	60	60	60	60	62	62	60	61	60	60	60	60
60	60	60	61	60	60	76	79	80	78	88	94	93	81	90	93
90	89	83	69	63	70	62	60	77	77	69	76	75	77	86	94
93	94	95	94	91	89	96	99	97	98	96	91	96	75	61	60
61	66	67	61	60	60	60	60	61	78	71	84	84	73	60	61
64	63	60	60	60	60	60	60	63	60	60	60	64	60	60	60
60	60	60	60	60	61	70	60	67	64	63	61	73	60	60	60
63	60	60	60	60	60	60	60	60	60	72	61	69	67	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

%EOF

ENTER LOG DATE (DD/MM/YR) : 27/07/79
ENTER SITE CODE (5 CHARS) : 20960

ENTER USER CODE (4 CHARS) : 4350
ENTER JOB CODE (3 CHARS) : 272

DATA LOGGED :27 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1224
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 7:42:52

DATA ANALYZED : 20 SEPT 1979
SITE CODE : 20960
JOB CODE : 272
USER CODE : 4350
THRESHOLD : 80 DB
TOTAL SAMPLES = 111091
STANDBY TIME = 0: 1:33

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 462
PERIOD = 1 MINUTES

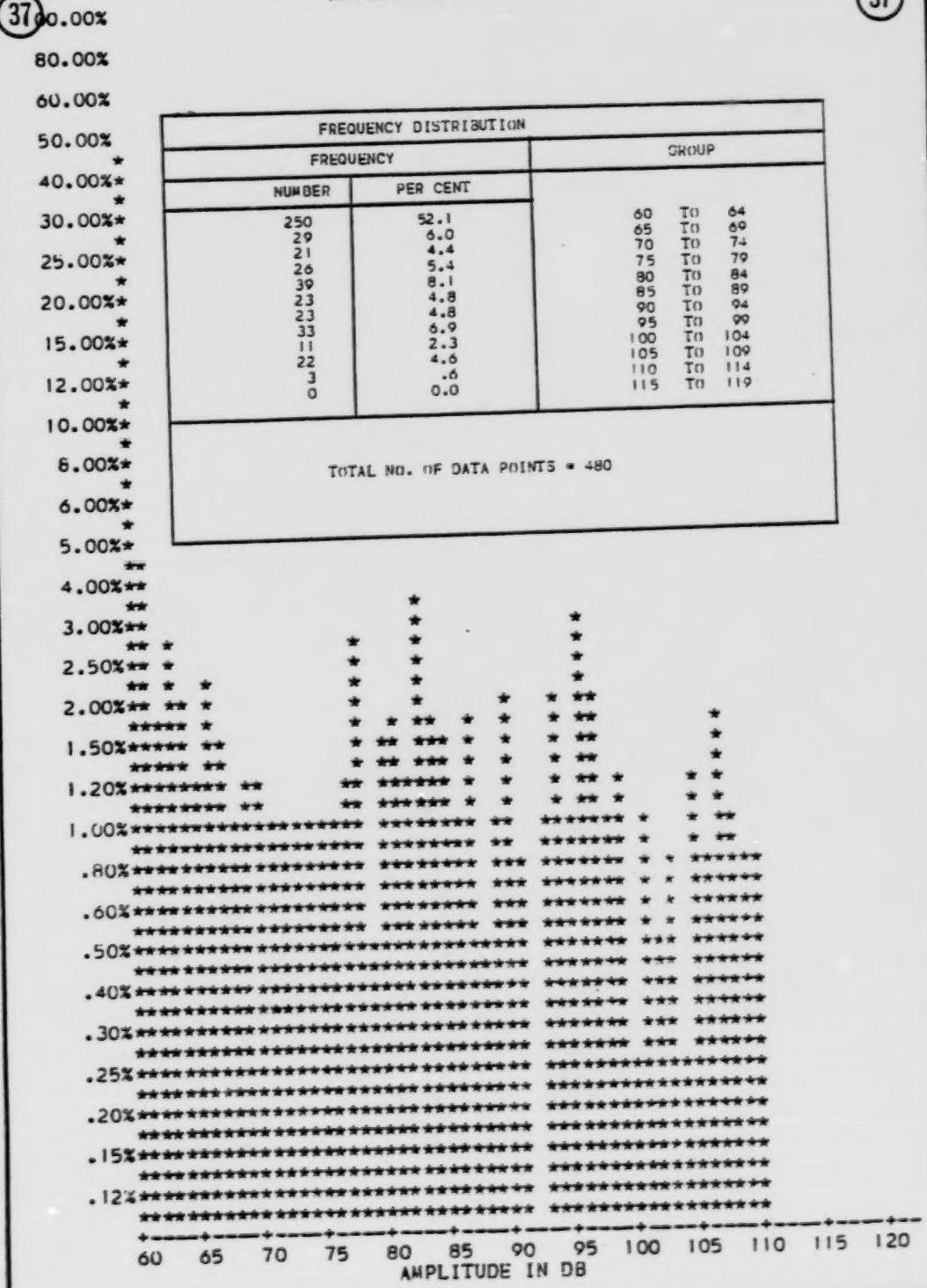
TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	65.7	65.7	.428	.43
2	98.6	93.7	41.236	41.66
3	99.7	96.3	47.993	89.66
4	62.0	94.2	.259	89.92
5	80.4	92.9	3.312	93.23
6	73.3	91.7	1.238	94.47
7	87.2	91.2	8.484	102.95
8	63.0	90.5	.207	103.16

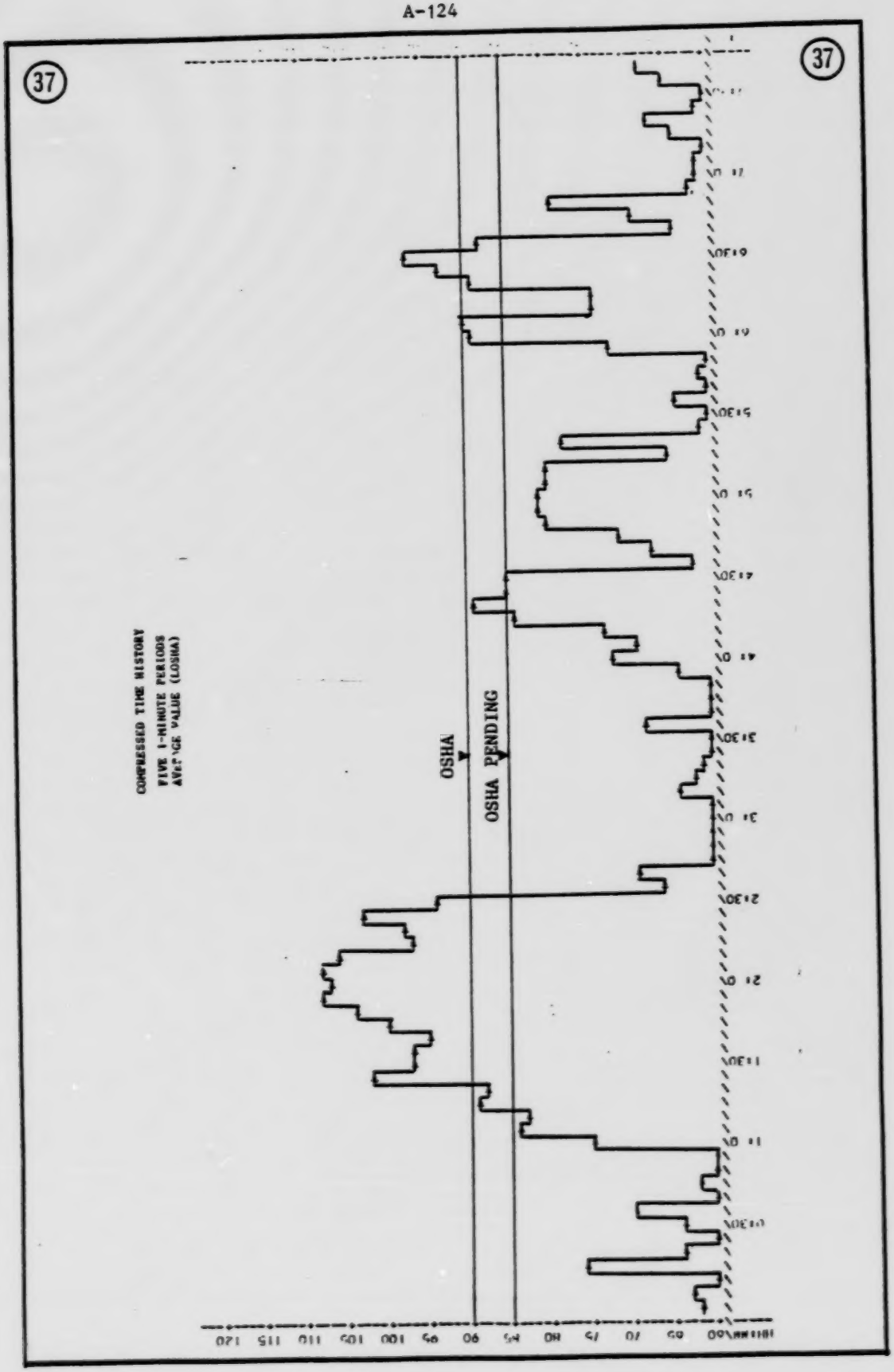
MIN. COMP. = 60 DB MAX. COMP. = 110 DB
ARITHMETIC MEAN = 73 DB
STD. DEVIATION = 16 DB
VARIANCE =256 DB

AMPLITUDE DISTRIBUTION

(37) (37)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
250	52.1	60 TO 64
29	6.0	65 TO 69
21	4.4	70 TO 74
26	5.4	75 TO 79
39	8.1	80 TO 84
23	4.8	85 TO 89
23	4.8	90 TO 94
33	6.9	95 TO 99
11	2.3	100 TO 104
22	4.6	105 TO 109
3	.6	110 TO 114
0	0.0	115 TO 119
TOTAL NO. OF DATA POINTS = 480		




37
37
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
60
65
70
75
80
85
90
95
100
105
110
115
120

38

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1225   60   64    4    1
     89     115200  480
  66  64  66  65  61  65  69  74  74  69  60  64  66  65  67  67
  76  64  67  63  70  72  68  60  60  60  60  61  60  60  62  60
  60  60  66  72  69  69  73  64  77  89  89  89  89  92  91  89
  91  98  98  98  99  99 100 101  97  97  95  96  94  92  96  94
  93  90  93  93  95  91  92  93  90  91  74  73  71  61  66  60
  67  70  65  66  60  66  65  65  60  60  62  72  62  60  62  60
  60  60  60  62  60  66  77  60  60  60  60  60  60  60  65  61
  65  68  65  60  60  60  75  60  77  91  83  80  94  87  82  82
  82  82  82  82  82  82  82  82  82  82  82  92  96  88  92  81
  79  80  79  82 106 114 114 114 114 115 115 115 115 115 115 115
 115 115 115 115 115 115 115 114 114 114 115 117 118 119 117 115
 115 115 115 118 115 115 115 115 116 117 120 115 116 116 116 115
 116 115 115 115 115 119 117 118 116 116 116 115 116 119 118 117
 115 115 116 119 116 116 116 118 118 119 117 117 117 115 118 120
 116 116 116 117 116 116 119 115 117 115 117 117 119 119 115 115
 115 118 119 118 118 115 116 115 118 118 116 115 115 115 115 115
 115 118 117 117 118 116 116 116 118 116 116 116 115 116 117 116
 116 115 116 119 118 118 119 116 116 117 115 116 119 115 115 115
 114 114 118 114 115 115 115 115 116 117 115 119 120 118 115 116
 115 116 116 119 120 119 117 115 116 115 116 119 116 116 114 114
 114 114 116 118 117 115 115 115 116 115 116 119 114 114 114 114
 115 115 115 115 115 114 114 114 114 114 114 114 114 115 115 115
 116 116 116 115 115 116 116 116 116 116 116 116 116 116 116 116
 115 115 115 115 114 114 115 119 117 115 115 115 116 116 116 114
 114 117 118 118 115 114 115 114 118 117 115 115 115 117 115 115
 115 118 117 115 115 114 117 115 116 116 116 116 118 116 116 115
 116 117 115 116 115 118 115 118 118 116 116 116 117 116 116 117
 116 116 114 115 115 115 115 116 115 115 114 115 116 117 116 115
 115 116 115 101  94  93  92  89  80  66  60  67  61  66  68  76
  64  63  73  65  88  93  93  92  94  91  88  90  97  96  95  97
%EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 27/07/79
ENTER SITE CODE (5 CHARS) : 20960
ENTER USER CODE (4 CHARS) : 0335
 ENTER JOB CODE (3 CHARS) : 271
```

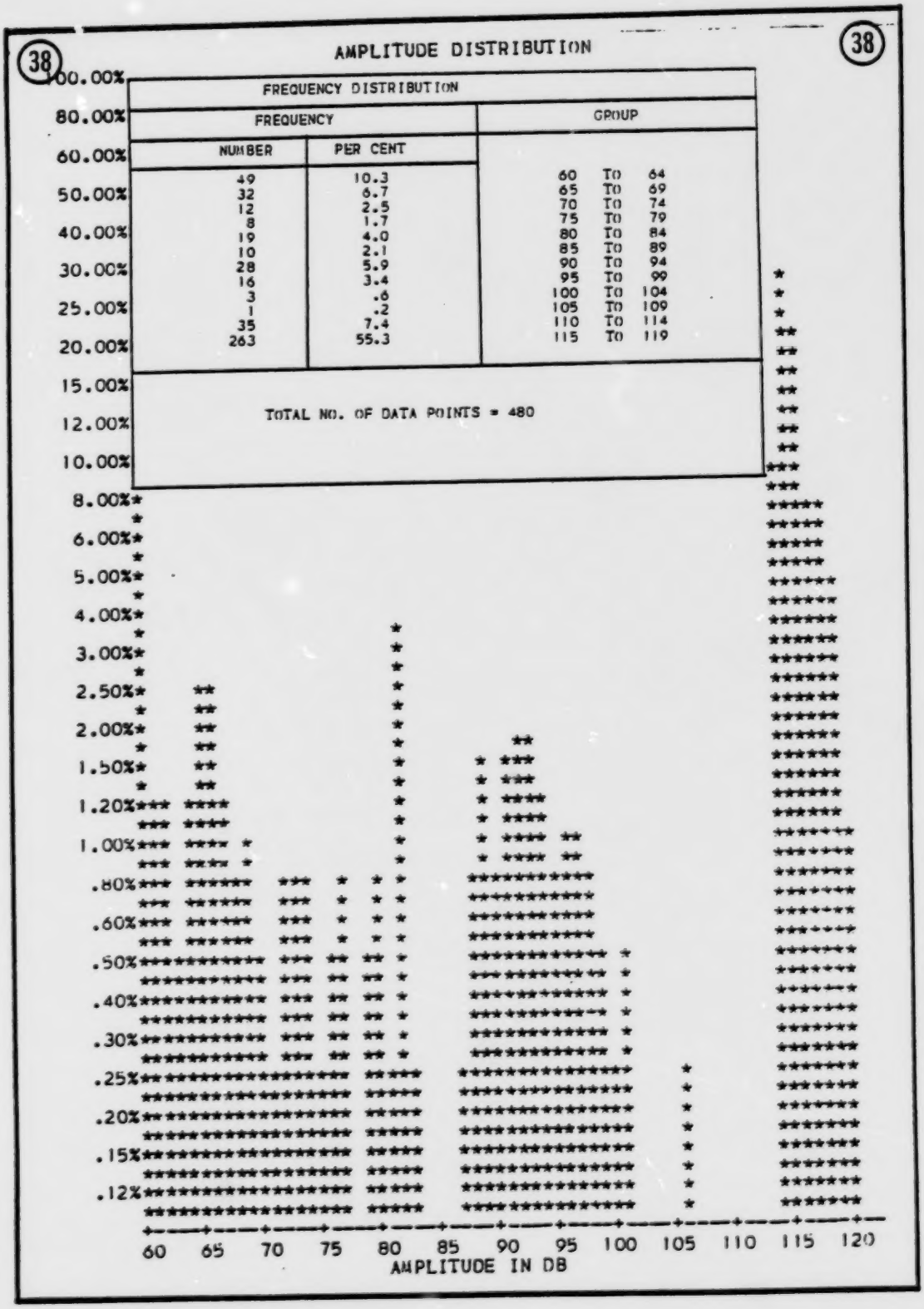
```
   DATA LOGGED :27 JULY 1979          DATA ANALYZED : 20 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 20960
SERIAL NUMBER : 1225                        JOB CODE : 271
     BASELINE : 60 DB                      USER CODE : 0335
DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0:22
```

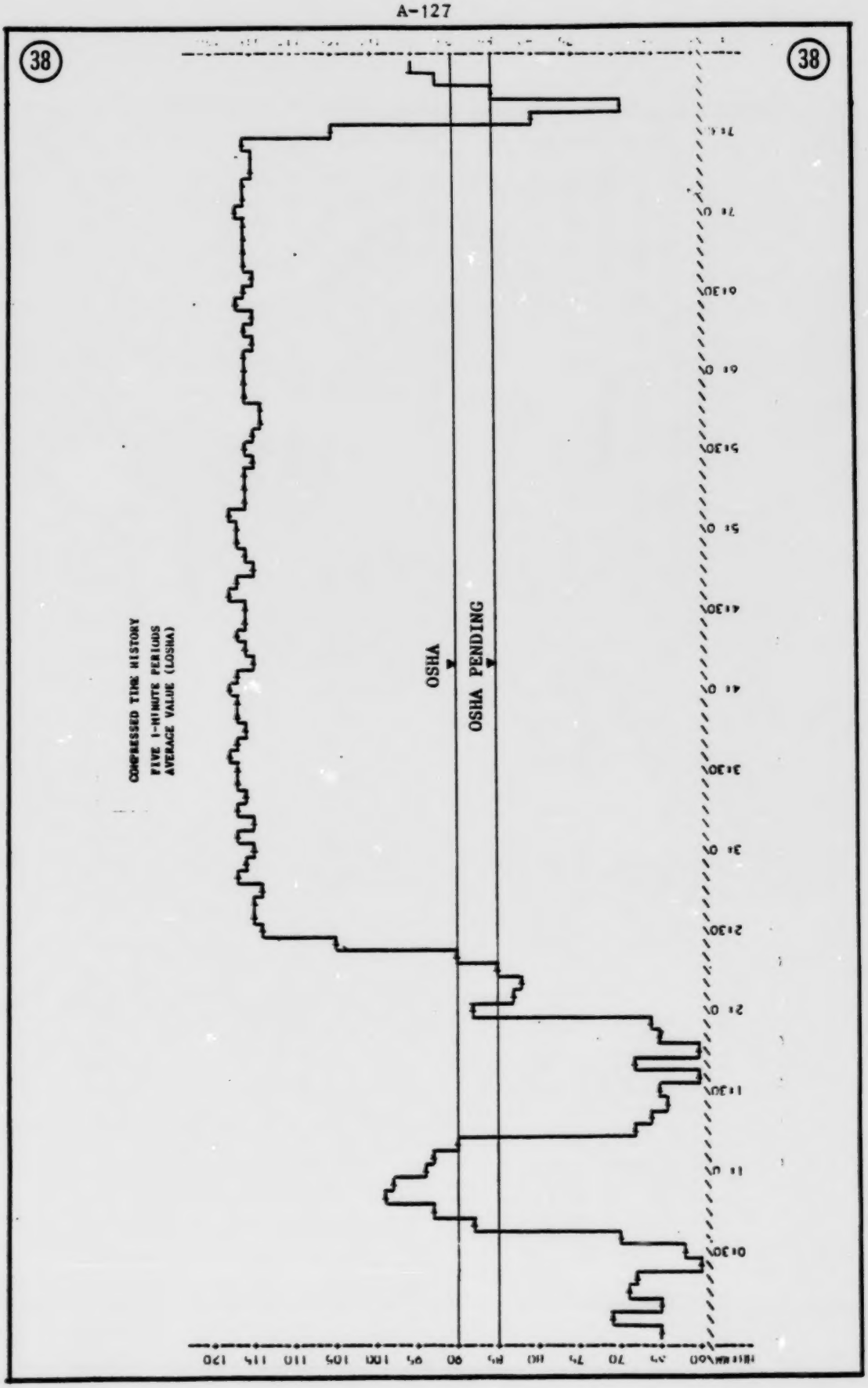
TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	87.8	87.8	9.170	9.17
2	82.9	85.7	4.657	13.83
3	110.7	103.3	221.873	235.70
4	116.7	109.4	504.253	739.95
5	116.4	111.5	486.445	1226.40
6	115.8	112.4	446.286	1672.68
7	115.8	113.0	449.836	2122.52
8	111.3	112.8	238.828	2361.35

```
MIN. COMP. =  60 DB                MAX. COMP. = 120 DB
ARITHMETIC MEAN = 101 DB
STD. DEVIATION =  21 DB
VARIANCE =441 DB
```


38
AMPLITUDE DISTRIBUTION
38
FREQUENCY DISTRIBUTION
FREQUENCY
NUMBER
PER CENT
GROUP
49 10.3 60 TO 64
32 6.7 65 TO 69
12 2.5 70 TO 74
8 1.7 75 TO 79
19 4.0 80 TO 84
10 2.1 85 TO 89
28 5.9 90 TO 94
16 3.4 95 TO 99
3 .6 100 TO 104
1 .2 105 TO 109
35 7.4 110 TO 114
263 55.3 115 TO 119
TOTAL NO. OF DATA POINTS = 480
100.00%
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


38
38
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
7:0
7:30
120
115
110
105
100
95
90
85
80
75
70
65
60

(39)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1219   60   64    4    1
     104     115200  480
 60  60  62  70  60  62  60  64  62  63  61  71  66  60  61  66
 60  60  60  60  61  60  60  62  60  60  60  66  60  60  60  60
 60  63  60  79  64  60  67  67  64  64  62  68  70  61  72  83
 87  87  93  93  94  95  97  97  94  95  96  98 100 100 100  94
 99  96  90  94  98  94  94  92  98  97  95  80  64  61  60  68
 60  60  60  60  60  60  60  63  60  60  60  60  61  66  60  61
 66  62  77  70  60  60  65  73  60  60  62  66  86  89  92  85
 72  67  63  60  61  68  69  78  80  87  82  67  70  78  69  76
 88  96  94  90  89  74  71  74  65  60  65  85  79  84  86  88
 88  92  92  96  97  94  95  93  84  72  61  71  95  89  84  67
 61  60  68  81  84  80  71  65  68  69  65  60  94  92  66  60
 60  60  60  60  65  60  60  60  62  60  60  60  60  60  60  60
 60  60  90  97  80  60  60  60  60  91  99  93  76  75  72 109
106  91  90  96  83  98 110 110 111 108 105 111 111 110 107  99
 86  86  97 104 111 112 110 106 108 111 113 114 110  91  96  82
 78  78  79  79  72  92  94 106 109 108 107 102 109 113 113 112
 96 104  94  92  85  93  90  96  79  75  75  61  60  90  94  95
 95 100 103  94  89 105 104 104 102 103 107 108 108 102  95 104
107 106 109 106  92  92  86  91  93  71  64  93  75  60  60  60
 60  60  60  70  66  60  60  60  60  60  60  71  77  88  64  74
 60  60  73  77  60  60  60  60  76  70  72  70  79  74  77  73
 72  83  77  77  64  65  68  73  69  77  75  67  72  77  79  63
 78  82  85  88  83  63  78  60  85  89  92  91  75  77  85 100
 87  85  61  97  90  86  94  96  94  89  91  93  90  94  70 105
 95  60  60  63  61  60  60  69  60  61  65  64  75  82  83  82
 80  74  60  60  61  63  70  62  79  86  96 102  86  85  81  84
 91  88  92  85  60  60  60  60  60  60  60  60  66  60  62  60
 61  61  60  60  61  60  60  60  60  60  67  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  62  60  70  60  62  65  60  62  60  60  60  60
%EOF
```

(39)

```
ENTER LOG DATE (DD/MM/YR) : 27/07/79

ENTER SITE CODE (5 CHARS) : 22304

ENTER USER CODE (4 CHARS) : 2814
 ENTER JOB CODE (3 CHARS) : 281
```

```
   DATA LOGGED :27 JULY 1979          DATA ANALYZED : 20 SEPT 1979
       LOGGER : DB-301/26                 SITE CODE : 22304
SERIAL NUMBER : 1219                       JOB CODE : 281
     BASELINE : 60 DB                     USER CODE : 2814
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0:26
```

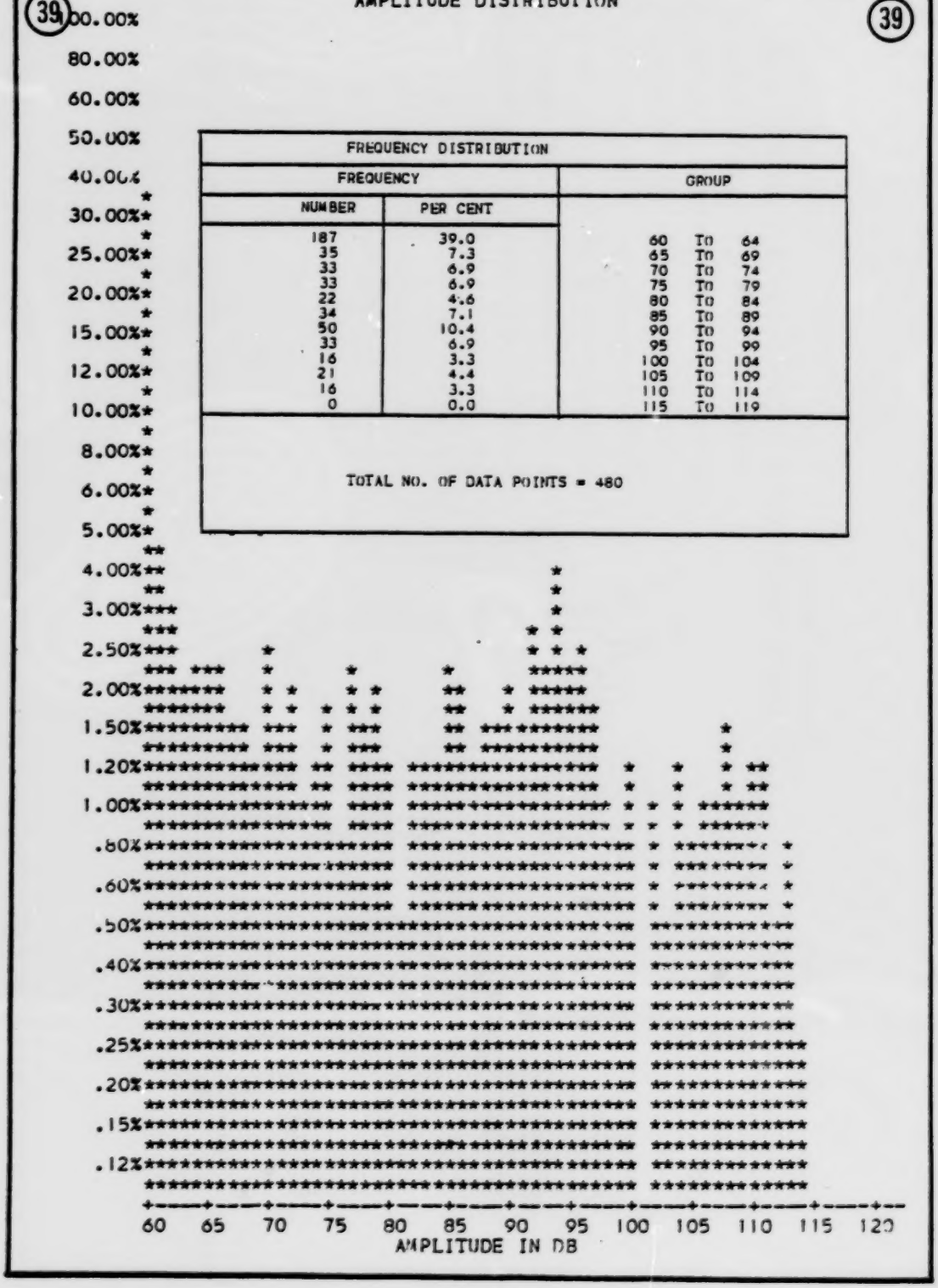
TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	83.5	83.5	5.044	5.04
2	87.5	85.8	8.890	13.93
3	85.9	85.8	7.061	21.00
4	102.9	94.7	74.943	95.94
5	101.8	96.8	64.335	160.27
6	74.6	95.5	1.476	161.75
7	89.0	94.9	10.901	172.65
8	61.0	93.9	.224	172.87

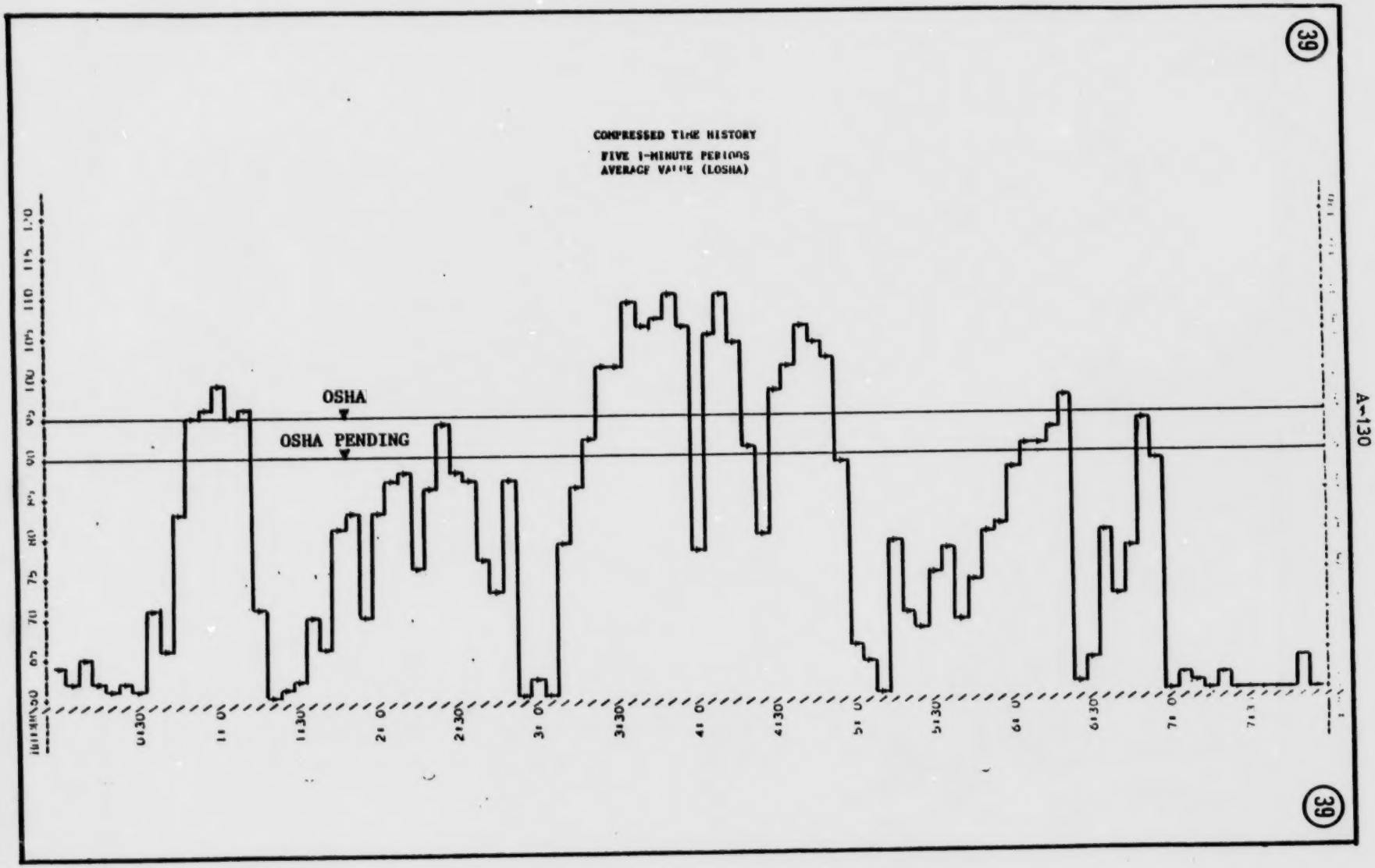
```
MIN. COMP. =  60 DB                MAX. COMP. = 114 DB
ARITHMETIC MEAN =  76 DB
STD. DEVIATION =  17 DB
VARIANCE =289 DB
```

39 AMPLITUDE DISTRIBUTION 39



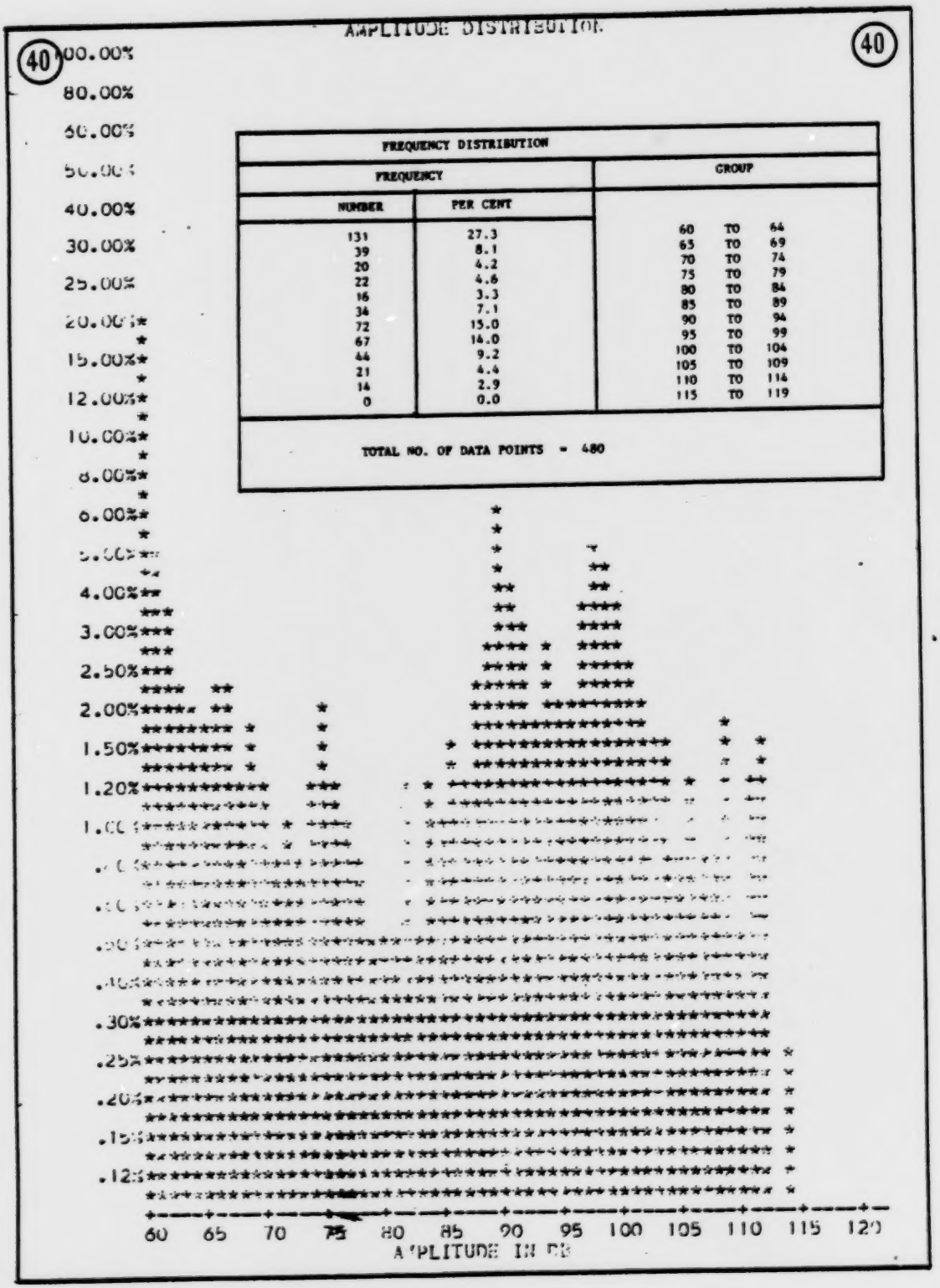
FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
187	39.0	60 To 64
35	7.3	65 To 69
33	6.9	70 To 74
33	6.9	75 To 79
22	4.6	80 To 84
34	7.1	85 To 89
50	10.4	90 To 94
33	6.9	95 To 99
16	3.3	100 To 104
21	4.4	105 To 109
16	3.3	110 To 114
0	0.0	115 To 119

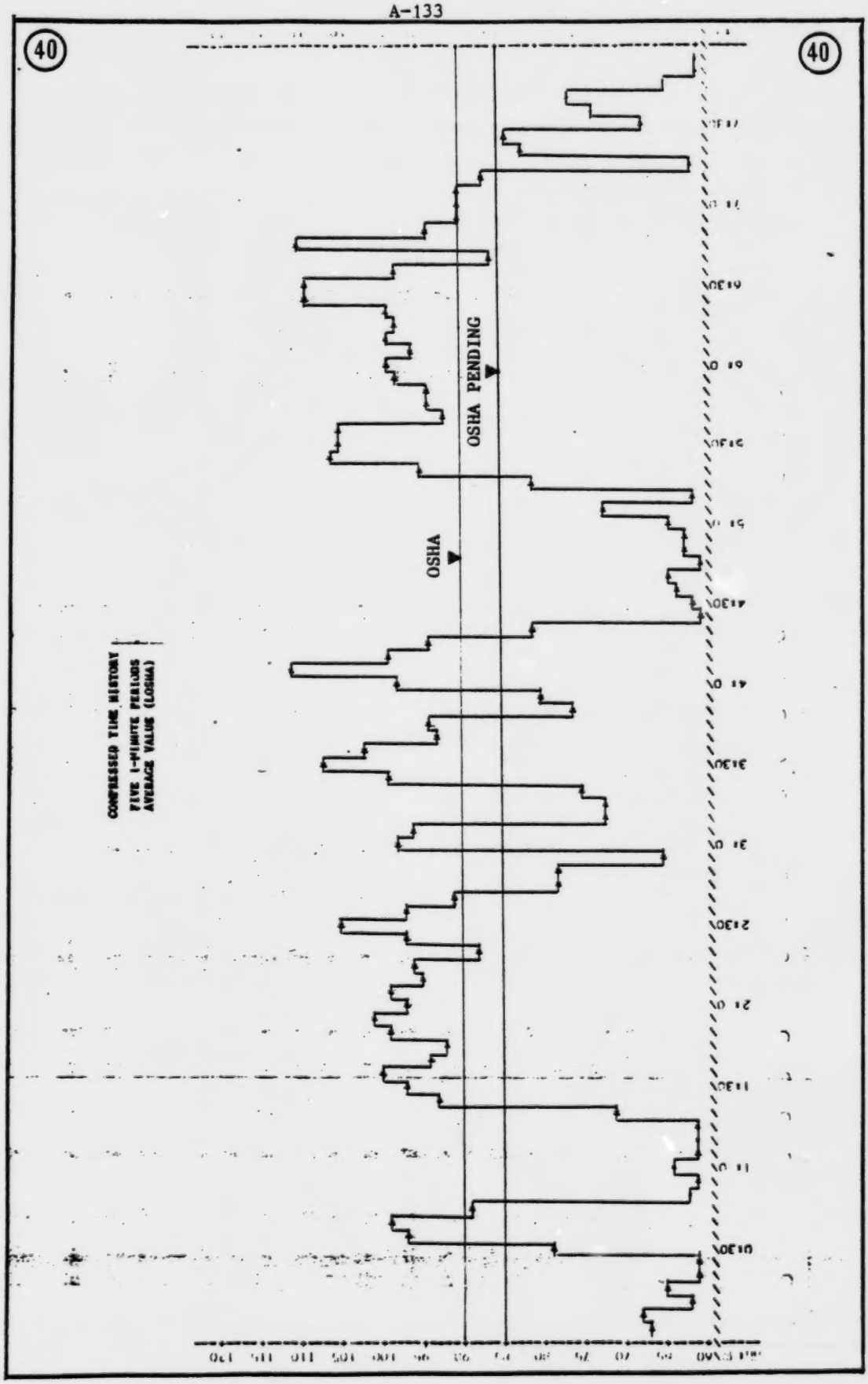
TOTAL NO. OF DATA POINTS = 480


39
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
39

(40) (40)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1218   60   64    4    1
     58     115200  480
  70  61  64  66  68  76  69  61  60  60  62  66  60  60  60  60
  60  71  63  63  62  62  60  60  61  60  60  60  60  64  70  76
  66  67  68  90  90  94 101 100  99 100 100  96  99  99  87  67
  77  67  67  61  60  60  60  60  60  60  62  62  61  68  64  64
  63  60  61  60  63  60  60  60  62  64  60  61  62  61  61  60
  60  74  72  75  60  82  86  91  98  97  97  95  95  95 100 101
 102 103  98  96  98  95  95  87  86  86  91  91  87  97  99 100
 101  98  91  94 102 102 102 103 104  99  90  90  91  91 100 100
 101  98  98 100  90  88  94  97  98  99  93  88  88  96  79  77
  79  76  80 102 101  98 104 114  98  93  94  94  97  98  99  98
  95  87  94  92  74  69  85  60  83  60  60  86  69  82  60  60
  63  72  60  60  69  99  99 100  98 101  93  94  98  92  71  76
  71  70  69  66  75  72  70  73  77  75  66  69  81  96  94  98
 100 102 109 107 107 105 106 106 104  99  99  99  98  94  92  85
  85  86  93  97  97  89  77  84  73  67  60  62  82  69  85  81
  93  98 101  97  97 109 112 112 111 109 108  91  91  90  90  90
  90  94  96  98  92  60  60  61  60  60  60  60  61  60  60  60
  60  62  64  61  66  61  64  61  65  60  60  61  68  60  60  60
  60  60  60  61  60  65  63  60  62  65  61  61  62  65  62  65
  66  74  75  75  62  60  60  60  60  63  62  60  65  66  63  92
  97  95 100  86  92 103 100 103 108 110 109 110 106  80  88  91
 103 111 109  89  96  91  89  90  91  94  90  88  95  99  97  98
  92  87  92  97 101 102  92  90  90 100 102  99  99  97  84  96
  96 100 101  88  93  97 105 106  99  90  91  84  97 101 103  96
  91  93 105 112 112 111 108 111 109 109 104  89  90 106  99  88
  92  75  70  82  91 104 112 111 112 107 104  84  74  83  90  89
  91  92  90  90  90  90  90  89  89  89  89  89  91  90  90  90
  90  72  60  60  60  65  60  60  84  60  90  75  76  92  88  69
  67  68  63  60  60  67  74  67  60  66  78  78  75  82  78  73
  60  66  64  67  60  61  60  60  60  60  60  60  60  60  60  60
$EOF


ENTER LOG DATE (DD/MM/YR) : 20/07/79
ENTER SITE CODE (5 CHARS) : 26210
ENTER USER CODE (4 CHARS) : 4719
 ENTER JOB CODE (3 CHARS) : 296


   DATA LOGGED :20 JULY 1979          DATA ANALYZED : 17 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : 26210
SERIAL NUMBER : 1218                       JOB CODE : 296
     BASELINE : 60 DB                      USER CODE : 4719
DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0               STANDBY TIME =   0: 0:14

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                      NOISE
HOUR     CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1       86.5      86.5          7.475      7.67
   2       93.4      90.8         20.150     27.83
   3       95.7      92.8         27.553     55.36
   4       96.2      93.8         29.374     84.75
   5       95.6      94.2         27.180    111.93
   6       97.8      94.9         36.792    148.72
   7      102.2      96.5         67.604    216.33
   8       81.5      95.7          3.425    220.15
MIN. COMP. =  60 DB              MAX. COMP. = 114 DB
ARITHMETIC MEAN =  82 DB
STD. DEVIATION =  17 DB
VARIANCE =289 DB
```


AMPLITUDE DISTRIBUTION
40
40
FREQUENCY DISTRIBUTION
FREQUENCY
NUMBER
PER CENT
GROUP
131 27.3 60 TO 64
39 8.1 65 TO 69
20 4.2 70 TO 74
22 4.6 75 TO 79
16 3.3 80 TO 84
34 7.1 85 TO 89
72 15.0 90 TO 94
67 14.0 95 TO 99
44 9.2 100 TO 104
21 4.4 105 TO 109
14 2.9 110 TO 114
0 0.0 115 TO 119
TOTAL NO. OF DATA POINTS = 480
80.00%
60.00%
40.00%
30.00%
25.00%
15.00%
12.00%
10.00%
8.00%
6.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


40
40
OSHA PENDING
OSHA
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

41

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

```
  1  26  80  1217   60   64    4    1
   22428     112373  468
  60  60  60  60  60  63  60  67  60  63  60  62  61  60  60  60
  60  60  64  60  60  74  60  62  60  77  72  73  60  67  60  63
  67  76  79  81  77  71  60  60  60  61  60  60  64  60  60  60
  60  66  71  69  72  73  76  73  73  69  75  74  66  74  74  74
  78  72  74  73  69  62  69  68  67  67  70  93  89  91  92  96
  96  94  97  97  92  95  94  95  94  95  96  86  93  89  92  84
  68  60  63  63  71  64  67  67  76  83  91  71  86  95  93  88
  89  94  86  88  80  77  71  80  75 102 100 112  95  94  94  95
  95  92  92  92  91  93  97  94  93  92  98  99  98  96  91  91
  90  94  93  95  90  91  93  95  89  96  94  95  97  92  94  98
  99 104 105 108 111 111 110 109 110 112 111 111 110 111 112 104
 110 110 109 106 110 111 112 110 107 107 101 102 104  97  98  97
 101  93  90  91  91 103 102 100  91  97  99  96  93 100 103 107
 103  97 102 107  97 110 112 110 109 110 111 112 113 112 109 104
 114 114 113 112 110 111 107 108 105  98  92  94 104 104  95  94
  94 110 112 110 110 108 109 109 109 107 108 110 110 110 110 107
 107 106 107 107 107 106 105  95  97  93  92  93  94  95  96  96
  95  96  97  94  92  96  97  94  99  96  92  98  94  95  95  94
  96  95 100  94 100 104 111 111 111 110 108 110 111 111 108 111
 112 113 114 108  91  91  96 109 110 111 111 111 111 111 109 109
 108 105  86  80  74  66  64  62  60  60  60  63  64  60  60  60
  60  60  60  60  69  84  63  91 103 105 105 108 106 106 106 104
  96  93  92  94  92  93  93  89  96  92  93  93  95  92  95  92
  92  96  97  91  91  96 101  96 107 108 108 107 105 108 108 107
 107 107 106 108 110 110 105  99  95 102 108 110 110 110 110 109
 109 110 109 112 112 111 108 108 106 106 108 104 105 104 107 107
 107 105  99  97  99 107 108 107 106 107 105 101  90  95 105 108
 107 108 107 108 105 106 107 104  92  93  95  96  99  84  91  90
  85  97  97  98  96  96  96  94  93  94  93 103  87  73  77  63
  61  60  60  66  60  60  60  60  60  60  60  60  60  60  60  60
%EOF
```

ENTER LOG DATE (DD/MM/YR) : 14/09/79
ENTER SITE CODE (5 CHARS) : 42072
ENTER USER CODE (4 CHARS) : 7610
ENTER JOB CODE (3 CHARS) : 210

DATA LOGGED :14 SEPT 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1217
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 7:48:13

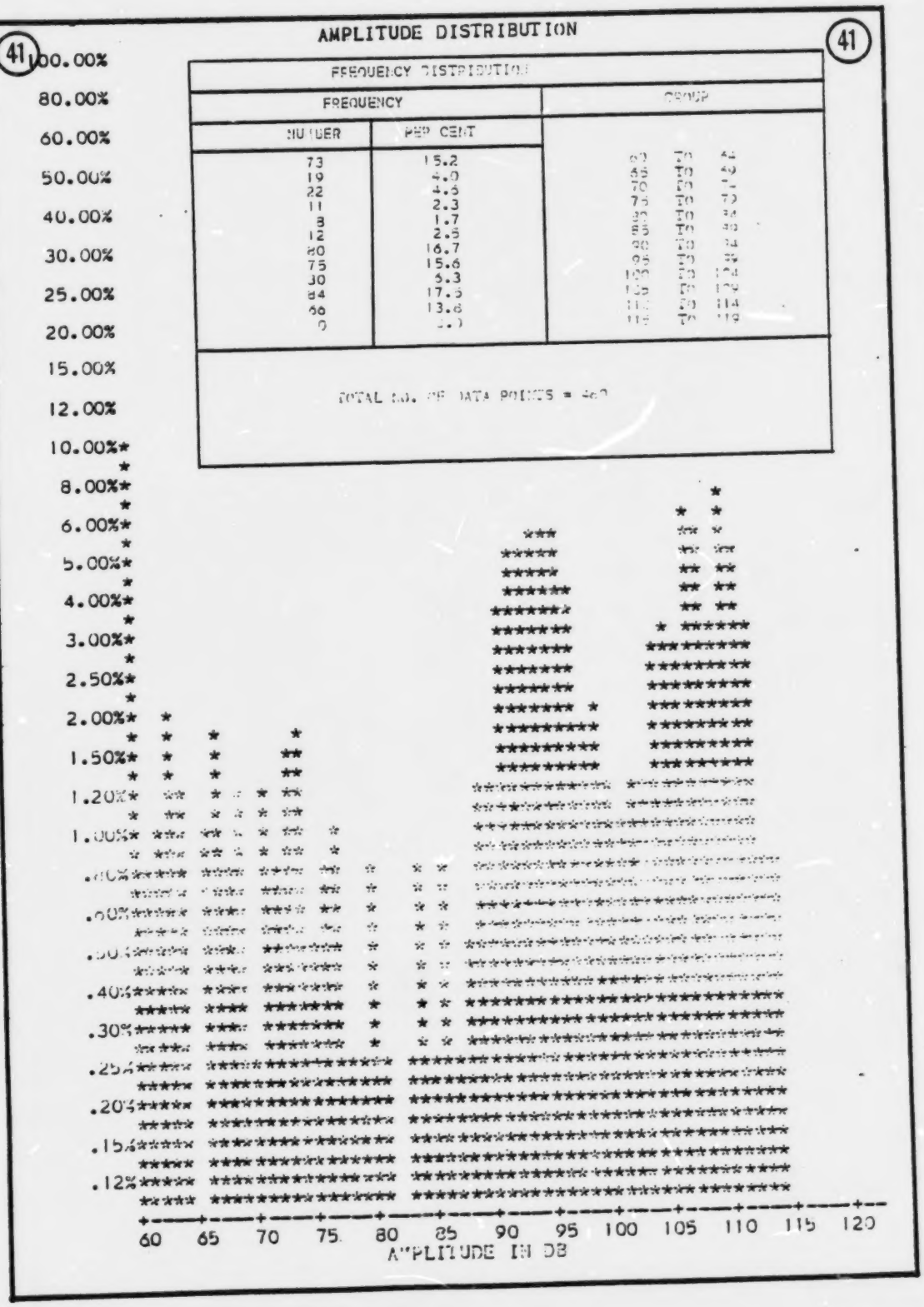
DATA ANALYZED : 27 SEPT 1979
SITE CODE : 42072
JOB CODE : 210
USER CODE : 7610
THRESHOLD : 80 DB
TOTAL SAMPLES = 112373
STANDBY TIME = 1:33:27

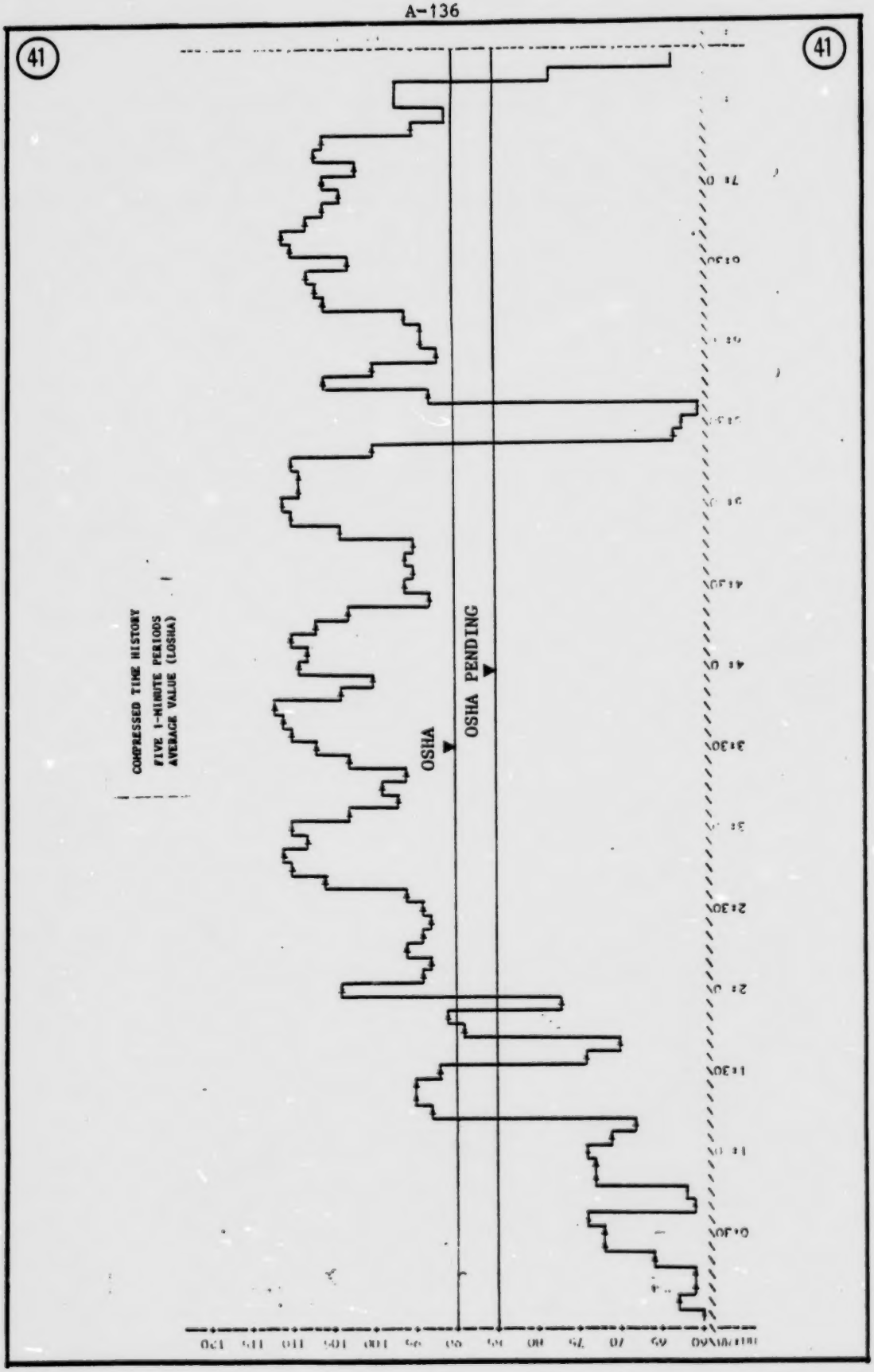
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 468
PERIOD = 1 MINUTES

TIME	LOSHA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	68.5	68.5	.638	.64
2	88.2	83.6	9.683	10.32
3	103.4	96.3	80.050	90.37
4	106.4	100.4	120.847	211.22
5	104.7	101.5	96.351	307.57
6	103.9	102.0	85.566	393.14
7	105.7	102.6	110.287	503.42
8	100.8	102.5	44.743	548.17

MIN. COMP. = 60 DB MAX. COMP. = 114 DB
ARITHMETIC MEAN = 92 DB
STD. DEVIATION = 17 DB
VARIANCE = [illegible] DB


AMPLITUDE DISTRIBUTION
41
41
FREQUENCY DISTRIBUTION
FREQUENCY
NUMBER
PER CENT
GROUP
73 15.2
19 4.0
22 4.6
11 2.3
8 1.7
12 2.5
80 16.7
75 15.6
30 6.3
84 17.5
66 13.8
0 0.0
TOTAL NO. OF DATA POINTS = 480
100.00%
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


41
41
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:30
2:30
3:30
4:30
7:30

(42)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
1 26 80 1224 60 64 4 1
9256 115200 430

62	60	60	64	61	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	61	62	73	71	74	
72	65	67	61	64	63	61	71	69	71	63	74	82	66	87	84
[illegible]															
[illegible]															
95	95	95	95	95	95	95	94	[illegible]							
93	94	94	94	94	94	94	94	94	93	94	95	95	94	103	105
113	114	113	107	97	97	97	100	115	113	111	103	114	112	113	113	107
[illegible]															
110	113	113	106	104	102	106	112	114	112	107	113	112	111	113	102
94	101	103	101	99	103	107	110	112	110	112	111	101	112	110	[illegible]
[illegible]															
106	110	99	92	93	93	99	103	114	107	102	97	97	99	103	102
95	94	93	94	94	94	93	93	93	93	94	94	95	95	94	94
95	96	94	98	103	104	107	110	111	109	112	109	111	111	110	109
111	114	110	112	114	112	111	111	106	99	103	102	110	109	108	108
100	97	95	97	96	99	98	95	95	94	94	95	95	105	93	77
76	64	71	79	69	64	70	66	61	66	61	60	61	62	65	60
[illegible]															
102	109	110	108	105	104	102	106	106	106	102	108	98	95	95	95
95	96	95	95	96	95	92	94	94	100	98	95	94	94	94	94
99	108	103	94	94	94	92	95	94	94	99	105	109	109	110	105
112	110	110	103	102	101	101	99	103	112	110	104	108	112	110	111
111	111	112	107	109	111	107	102	95	94	106	111	109	103	93	93
99	101	110	111	111	112	108	109	103	95	95	95	95	95	95	105
95	93	93	101	100	89	102	98	106	94	103	106	105	107	100	96
94	95	93	99	103	103	98	95	95	95	96	97	96	94	94	94
94	94	97	95	97	102	101	104	108	108	106	108	109	108	104	104
105	101	99	97	97	97	97	98	96	98	97	94	95	95	95	94
[illegible]															

ENTER LOG DATE (DD/MM/YR) : 24/07/79
ENTER SITE CODE (5 CHARS) : 45961
ENTER USER CODE (4 CHARS) : 4631
ENTER JOB CODE (3 CHARS) : 271

DATA LOGGED 24 JULY 1979
LOGGER : [illegible]
SERIAL NUMBER : 1224
CABLING : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible] DAYS

DATA ANALYZED : 17 SEPT 1979
SITE : [illegible]
JOB : 271
USER : 4631
THRESHOLD : 60 DB
TOTAL SAMPLES = 115200
STARTING TIME = [illegible]

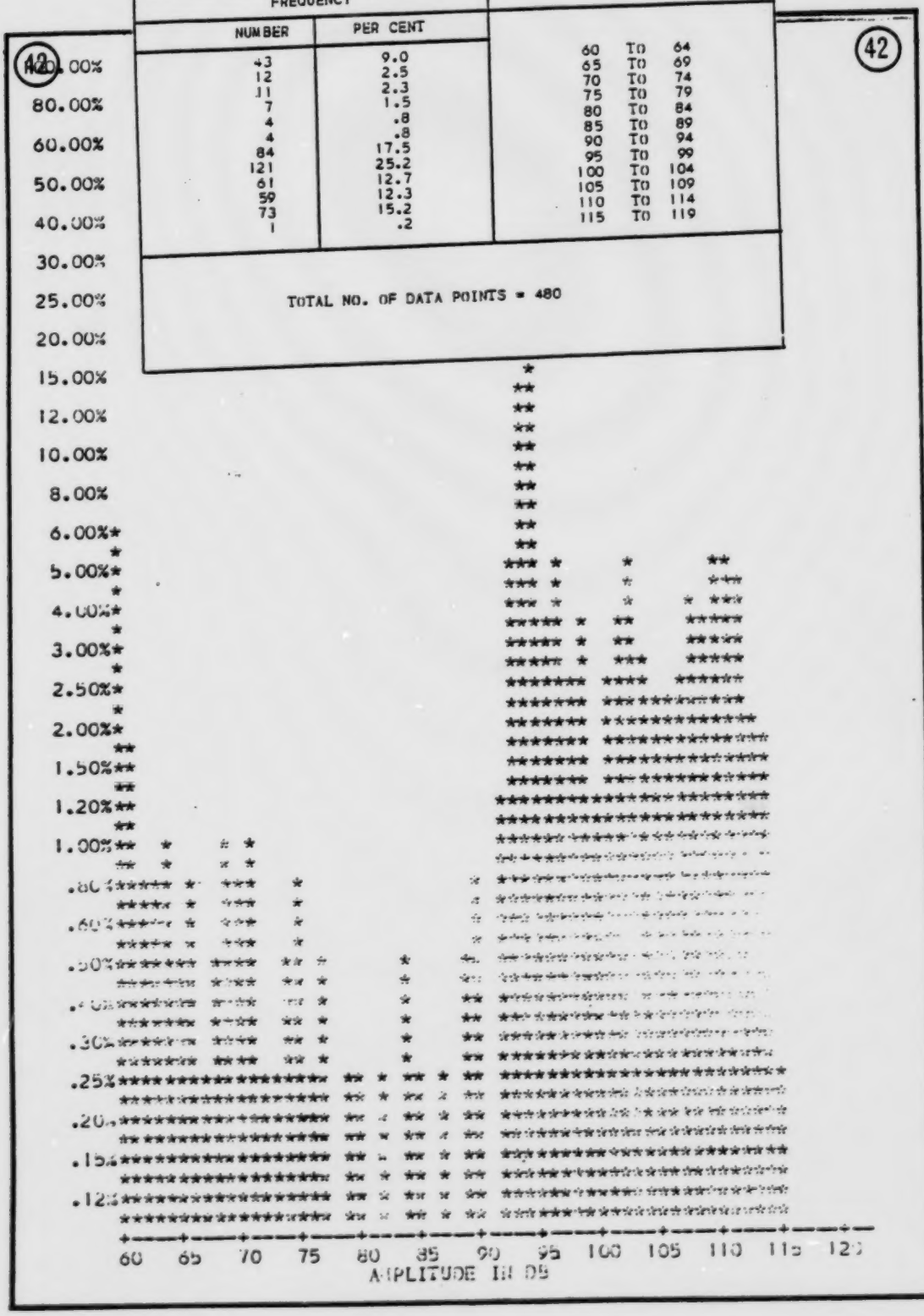
TIME HISTORY ANALYSIS

NOISE EXPOSURE LEVEL (L.E.L.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
TEST BASE = 70 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME HOUR	LOCAL CURRENT	LOCAL CUMULATIVE	GLOBAL CURRENT	GLOBAL CUMULATIVE
1	78.5	78.5	2.539	2.54
2	100.4	91.7	92.532	95.07
3	114.5	102.7	162.199	217.23
4	105.2	103.4	103.036	320.26
5	102.2	103.2	67.845	388.11
6	102.5	103.1	70.254	458.10
7	105.5	103.5	106.597	565.69
8	99.2	103.1	44.814	610.51

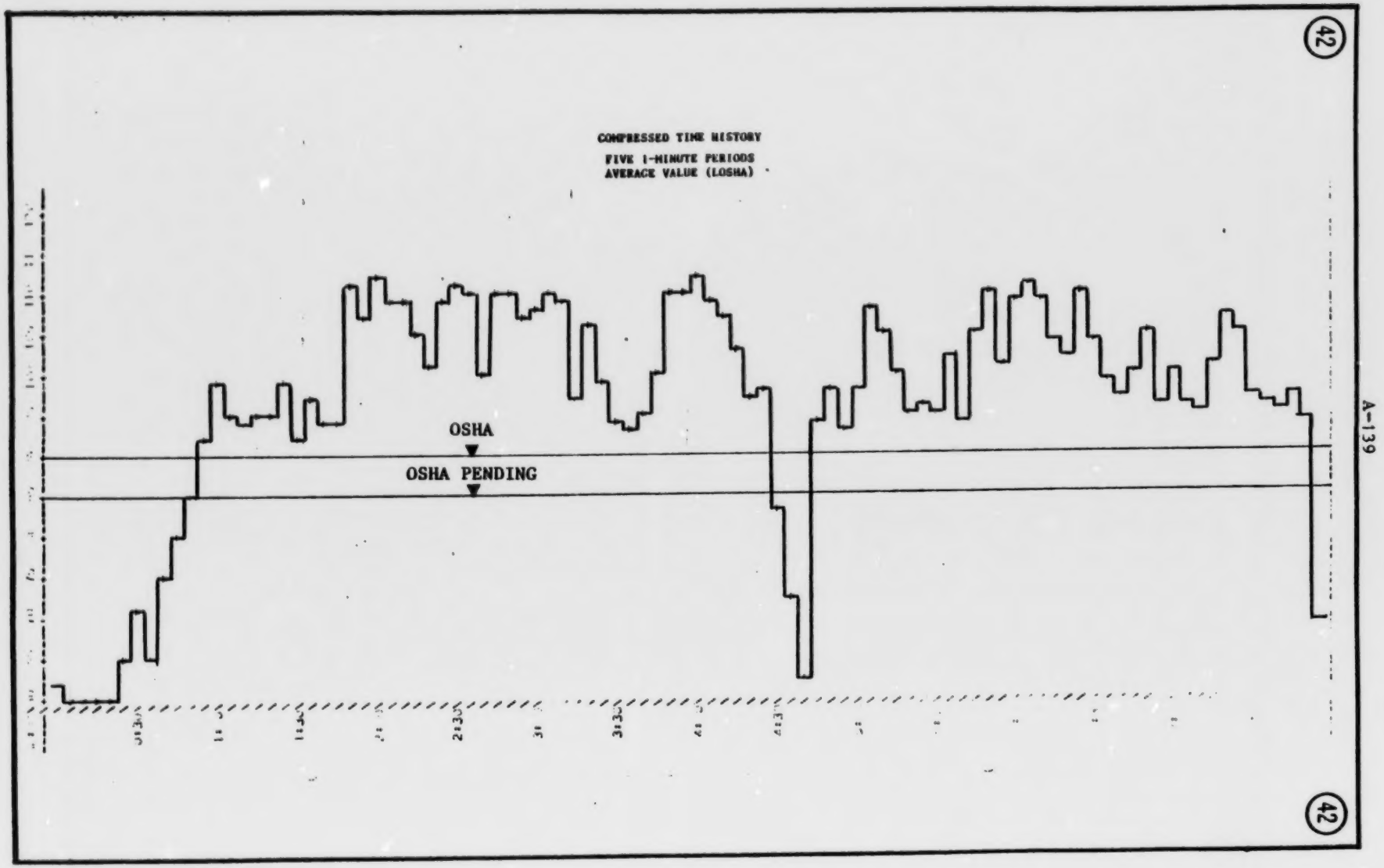
MIN. COMP. = 60 DB
ARITHMETIC MEAN = 95 DB
STD. DEVIATION = 15 DB
VARIANCE = 229 DB

MAX. COMP. = 115 DB



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
43	9.0	60 TO 64
12	2.5	65 TO 69
11	2.3	70 TO 74
7	1.5	75 TO 79
4	.8	80 TO 84
4	.8	85 TO 89
84	17.5	90 TO 94
121	25.2	95 TO 99
61	12.7	100 TO 104
59	12.3	105 TO 109
73	15.2	110 TO 114
1	.2	115 TO 119

TOTAL NO. OF DATA POINTS = 480


42
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
42

(43)

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

```
 1                                   60    64     8     1
      72      115200   480
 63   60   60   60   60   65   72   63   60   60   60   67   60   61   60   60
 60   68   71   73   69   72   66   66   63   69   67   62   61   67   61   63
 64   67   69   73   70   62   65   69   60   65   68   76   67   76   92   93
 93   93   93   94   94   93   90   92   94   91   91   91   93   95   71   67
 75   81   82   82   84   95   96   94   98  101  100   97   97   98  100   97
 97   98   82   73   61   65   64   60   62   61   62   64   67   68   74   69
 93   94   91   92  101   82   66  102   60   60   63   63   60   61   60   60
 60   60   60   60   60   65   60   60   61   60   85   99   66   83   92   90
106  112  116  117  113  121  122  116   95   95  119  112  112  120  120  120
120  120  120  121  120  119  121  120  119  119  121  122  122  122  121  119
121  120  121  122  122  121  121  121  121  120  116  108   94   94   91   92
 92   93   91   92  110  113  114  116  116  114  110  114  114  114  114  113
112  113  114  112  113  110  112  112  112  112  112  112  112  114  115  113
112  112  113  110   93   92  104  110  111  111  109  111  110  110  110   98
 93   95   95   94   89   60   90   73   49   60   60   60   60   60   61   63
 61   60   61   89   86   89   86   89   87   89   95   99   98   92   92   95
100   99  101  101  103  102   97  100  101  100   99   99  100   89   86   85
 83   82   90   92   91   91   92   91   97   97   97   96   95   96   95   90
 84   85   85   85   87   89   90   94   90   69   60   70   66   60   65   66
 69   68   60   66   62   67   62   60   71   60   61   60   60   63   67   66
 60   65   67   64   65   89   92   99   90   86   86   87   86   87   87   77
 77   72   64   73   71   69   78   65   60   68   75   76   79   78   77   76
 76   77   77   81   80   78   76   73   78   82   78   74   73   79   79   79
 82   86   86   88  100   96  100  106  104   84  105  106  106  109  107  107
107  108  108  108  106   98   87   90   99  108  108  108  101   93  108  108
108  108  107  110  112  112  111  111  113  111  109  110  103  105  106  110
111  110  112   95   86  111  111  112  112  110  112  109  108  106  107  112
110  108  110  110  110  111  110  111  113  112  111  112  112  111  113  113
110  107   90  105  108  104  109  109  112  111  112  111  111  111  111  111
107  109  106   86   92   97   90   93   95   88   78   75   64   61   69   66
%EOF
```

(43)

```
ENTER LOG DATE (DD/MO/YR) : 12/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4566

 ENTER JOB CODE (3 CHARS) : 272
```

```
    DATA LOGGED :12 JULY 1979              DATA ANALYZED : 12 SEPT 1979
         LOGGER : DS-301/26                    SITE CODE : CC210
  SERIAL NUMBER : 1221                          JOB CODE : 272
       BASELINE : 60 DB                        USER CODE : 4566
DYNAMIC RANGE : 64 DB                         THRESHOLD : 80 DB
  SAMPLING RATE : 4/SEC                    TOTAL SAMPLES =  115200
 TEST DURATION =   8: 0: 0                  STANDBY TIME =   0: 0: 5
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

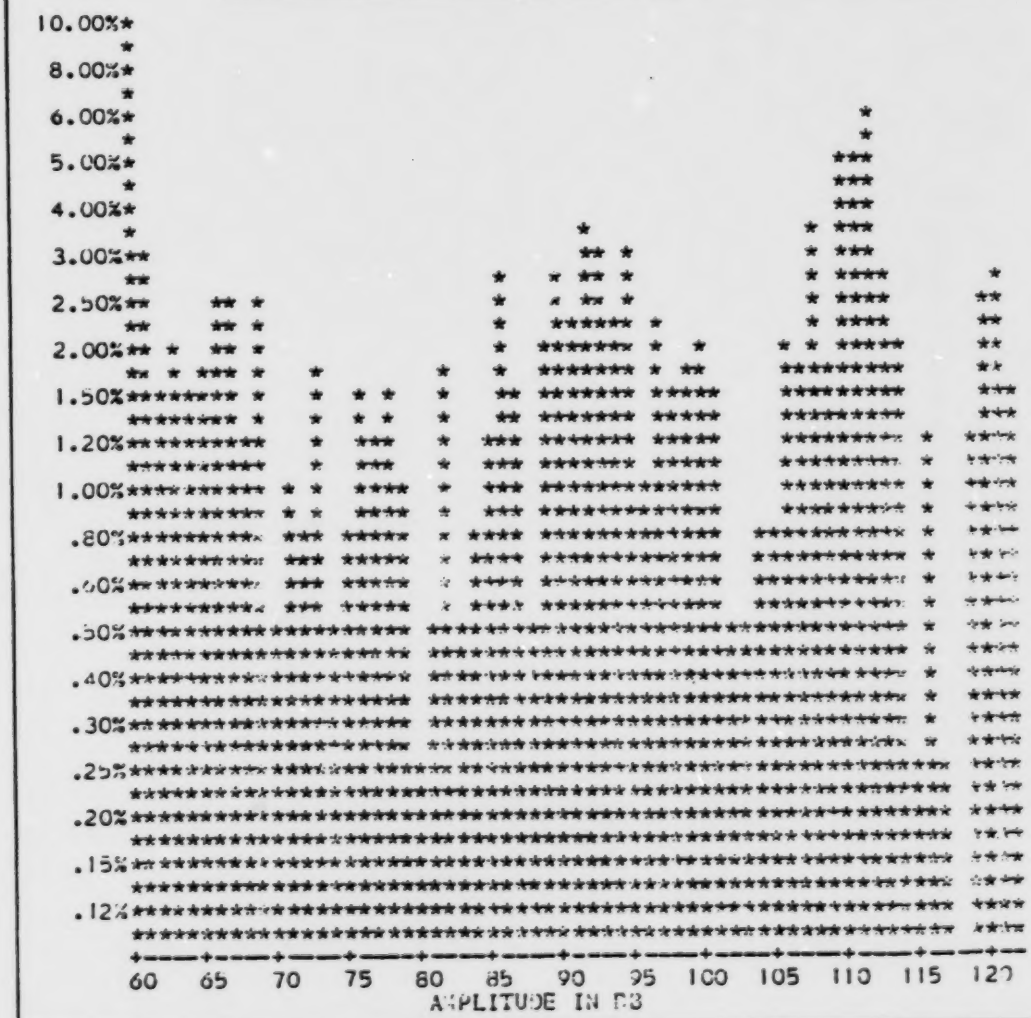
TIME	LEVEL		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	82.7	82.7	4.533	4.53
2	90.1	87.3	12.721	17.25
3	117.0	109.3	524.449	541.70
4	109.7	109.4	192.799	734.50
5	94.2	108.0	22.363	756.86
6	79.8	106.7	3.021	759.87
7	105.6	105.6	108.799	868.67
8	[illegible]	106.8	169.21[illegible]	1027.89

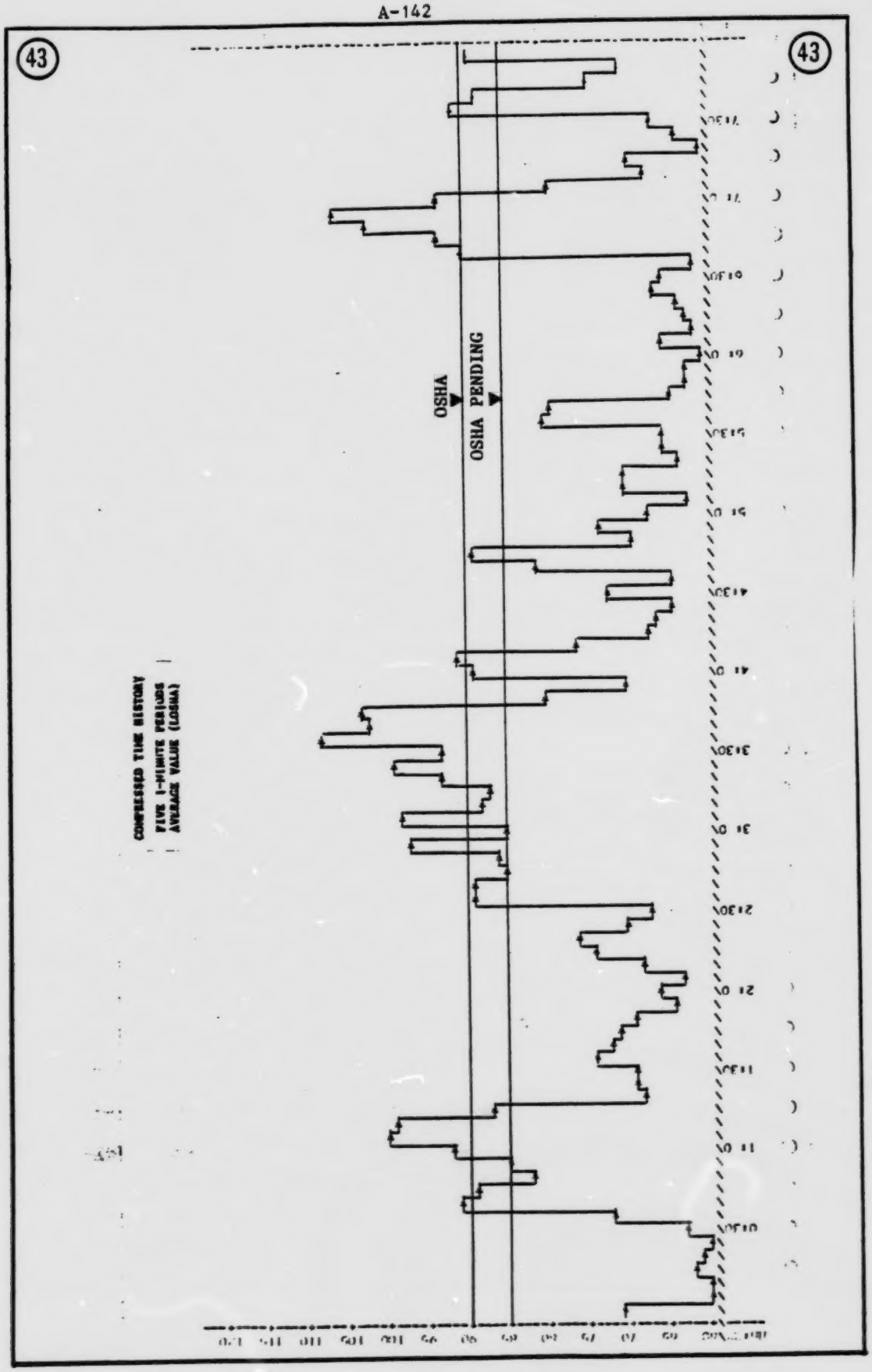
AVG. DOSE = 93 [illegible] MAX. DOSE = 122 [illegible]
AVG. PHYSIC [illegible] = 96 [illegible]
STD. DEVIATION = 29 [illegible]
[illegible] =

AMPLITUDE DISTRIBUTION

(48) (43)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
156	32.5	60 TO 64
87	18.1	65 TO 69
59	12.3	70 TO 74
28	5.8	75 TO 79
24	5.0	80 TO 84
38	7.9	85 TO 89
39	8.1	90 TO 94
27	5.6	95 TO 99
15	3.1	100 TO 104
1	0.2	105 TO 109
5	1.1	110 TO 114
1	0.2	115 TO 119
TOTAL NO. OF DATA POINTS = 480		




43
43
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(44) (44)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1221   60   64    4    1
     27     115200  480
  64  70  61  60  65  66  66  73  70  69  70  62  63  70  66  60
  62  60  61  61  67  65  70  64  76  71  70  [illegible]  9  69  90  91
  92  92  97  96  98  97  98  96  97  98  95  96  [illegible]  68  63  66
  67  67  63  61  68  64  62  61  67  68  67  69  68  80  76  73
  68  76  72  69  75  73  75  60  60  61  65  67  [illegible]  68  73  69
  79  74  70  69  90  96  87  [illegible]  60  60  60  [illegible]  70  77  [illegible]
  80  80  78  60  [illegible]  66  69  [illegible]  79  71  60  60  60  60  60  65
  66  65  62  61  60  60  69  93  88  61  60  60  62  60  62  72
  75  90  93  94  91  80  88 105  98  88  85  83  85  86  84  85
  85  86  87  92 108 107 106 104 103  99  99  99 100 104 103 102
 101  86  86  79  82  84  87  94  97  97  92  97  93  86  84  82
  80  75  83  83  88  94  87  70  92  96  92  96  81  83  83  83
  83  76  87  97  94  80  86  83  81   4  79  82  83  82  86  84
  85  83  82  80  79  83  84  83  80  68  72  70  73  72  60  62
  62  82  87  85  96  98  99  98  99  99 100 100 100 100 100 101
 101 101  94  82  83  84  84  85  84  84  83  83  84  81  83  83
  83  82  84  83  84  87  93  84  68  79  72  70  65  60  60  60
  60  61  60  65  64  60  69  67  60  60  62  62  62  67  61  63
  69  66  63  72  69  71  60  65  60  61  72  61  67  71  65  62
  88  92  82  82  79  75  79  82  79  82  83  83  82  91  97  86
  85  85  85  88  88  85  85  85  87  84  85  86  87  90  93  81
  80  71  66  63  72  60  64  63  64  71  66  62  66  67  62  60
  60  75  87  99  92  99  99 100 100  97  75  60  69  69  64  60
  62  71  74  72  92  99 101 100 101 101 100  96  83  82  76  60
  60  60  60  60  60  60  60  60  60  60  64  62  66  69  82  78
  70  65  66  71  69  85  99 100  92  85  84  82  88  86  86  81
  82  82  80  80  79  81  82  76  81  81  81  81  82  77  81  81
  82  82  81  81  84  83  85  83  82  83  81  82  82  83  93  91
  80  77  63  75  76  77  78  68  73  73  95  94  90  96  97  96
  96  96  91  71  91  64  65  83  80  96  81  96  94  79  71  85
%EOF


ENTER LOG DATE (DD/MM/YR) : 13/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4566
 ENTER JOB CODE (3 CHARS) : 272
```

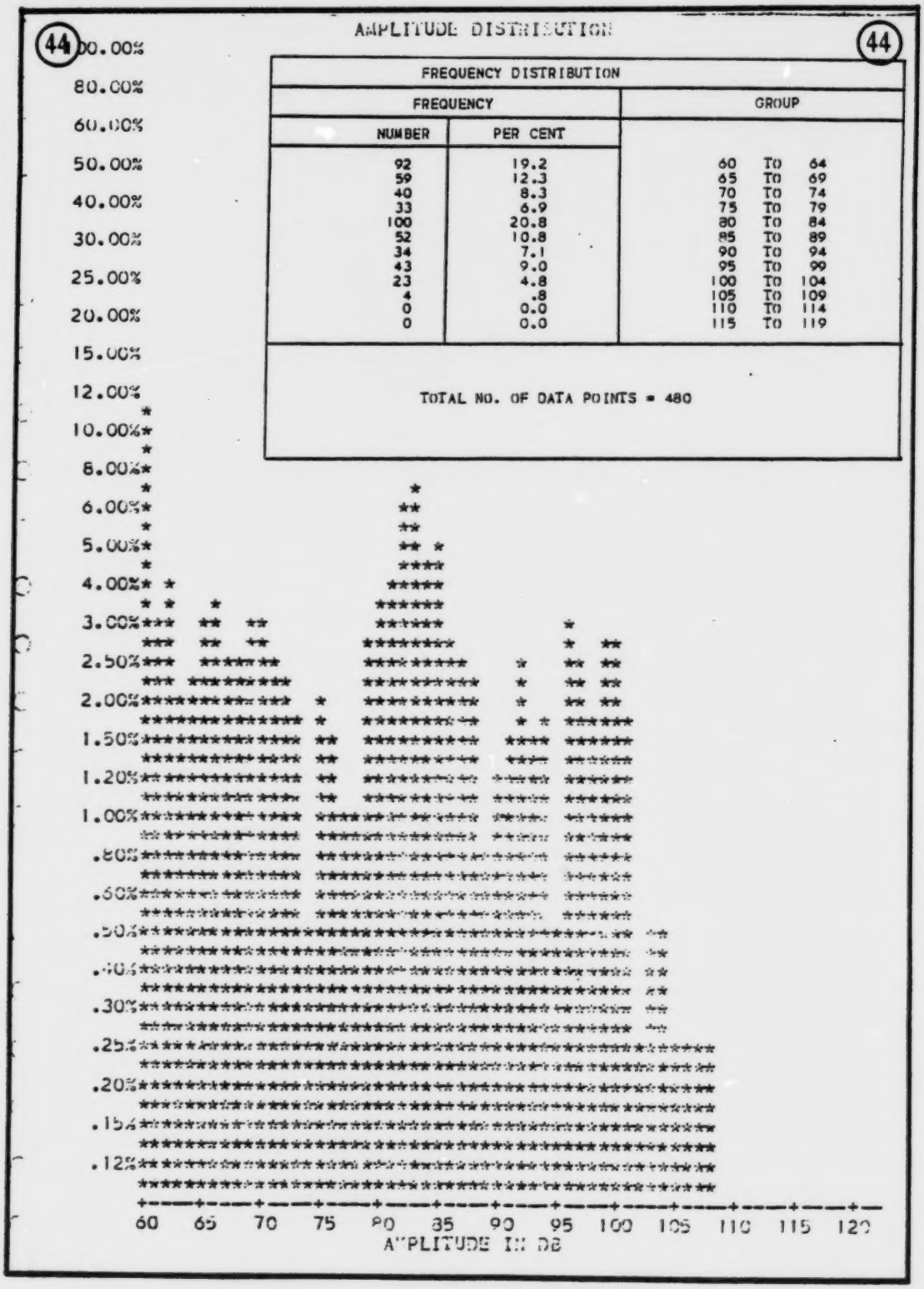
C

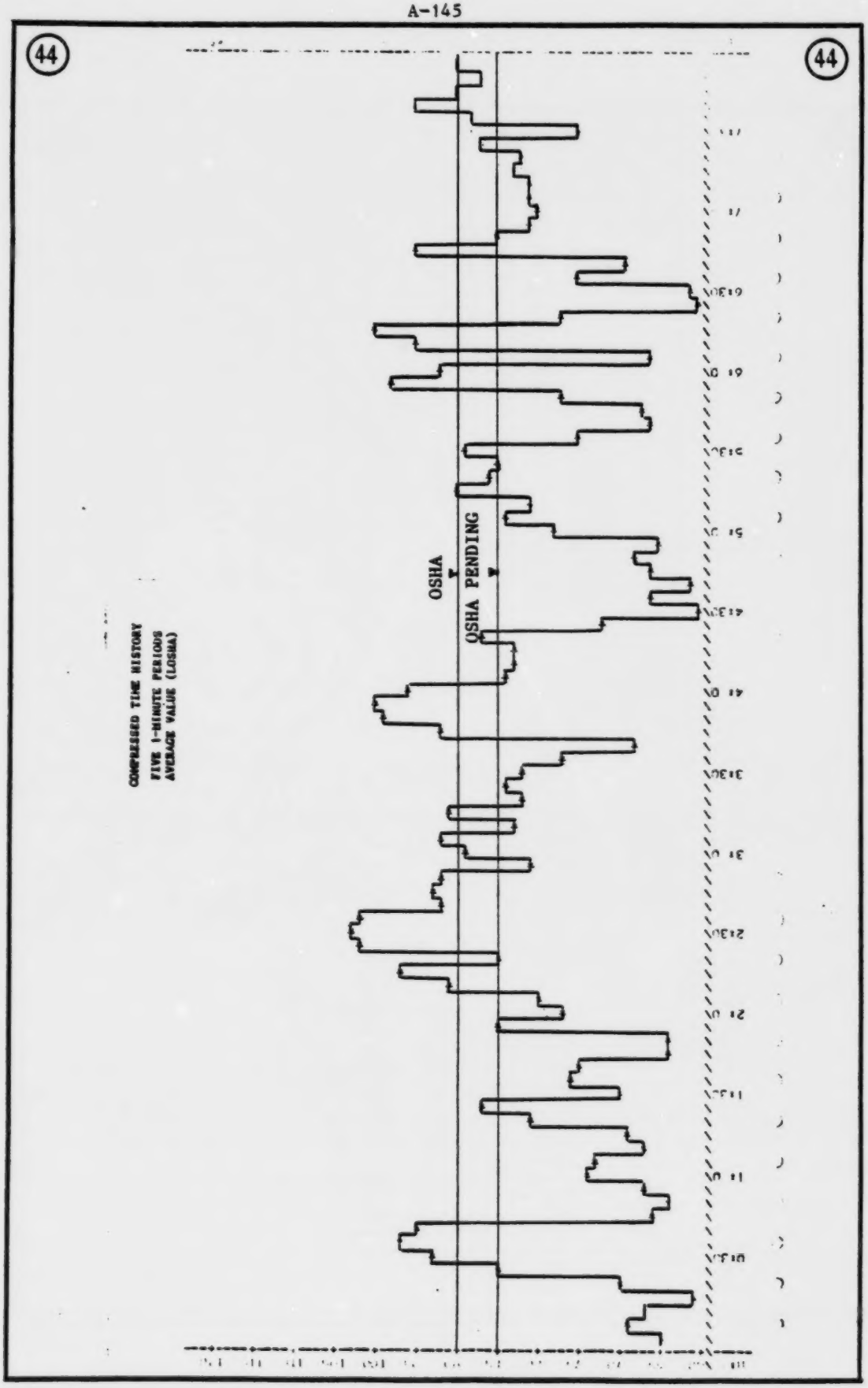
```
   DATA LOGGED :13 JULY 1979          DATA ANALYZED : 12 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : CC210
SERIAL NUMBER : 1221                       JOB CODE : 272
     BASELINE : 50 DB                      USER CODE : 4566
DYNAMIC RANGE : 64 DB                      THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 0: 6

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                      DOSE
HOUR     CURRENT  CUMULATIVE       CURRENT  CUMULATIVE
   1       86.2      86.2          7.359      7.36
   2       77.7      83.1          2.257      9.62
   3       95.3      [illegible]  26.[illegible]7     35.70
   4       91.1      90.0         14.[illegible]     50.30
   5       82.[illegible]  [illegible]  [illegible]     54.90
   6       86.6      [illegible]  7.771     62.67
   7       89.1      [illegible]  10.977     73.65
   8       [illegible]  88.6          .16[illegible]     [illegible]
MIN. COMP. =  50 DB                MAX. COMP. = 10[illegible] DB
ARITHMETIC MEAN =  7[illegible] DB
STD. DEVIATION =  13 [illegible]
VARIANCE =16[illegible] DB
```

(44) AMPLITUDE DISTRIBUTION (44)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
92	19.2	60 TO 64
59	12.3	65 TO 69
40	8.3	70 TO 74
33	6.9	75 TO 79
100	20.8	80 TO 84
52	10.8	85 TO 89
34	7.1	90 TO 94
43	9.0	95 TO 99
23	4.8	100 TO 104
4	.8	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




44
44
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

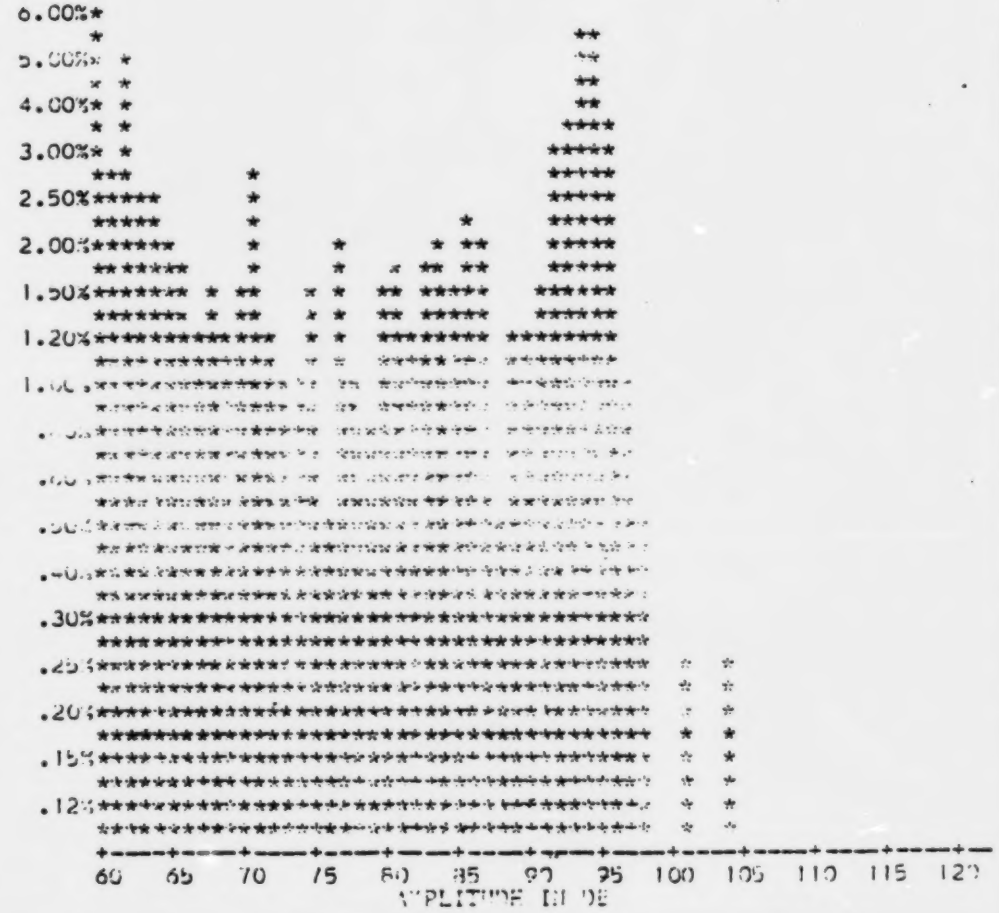
(45) (45)

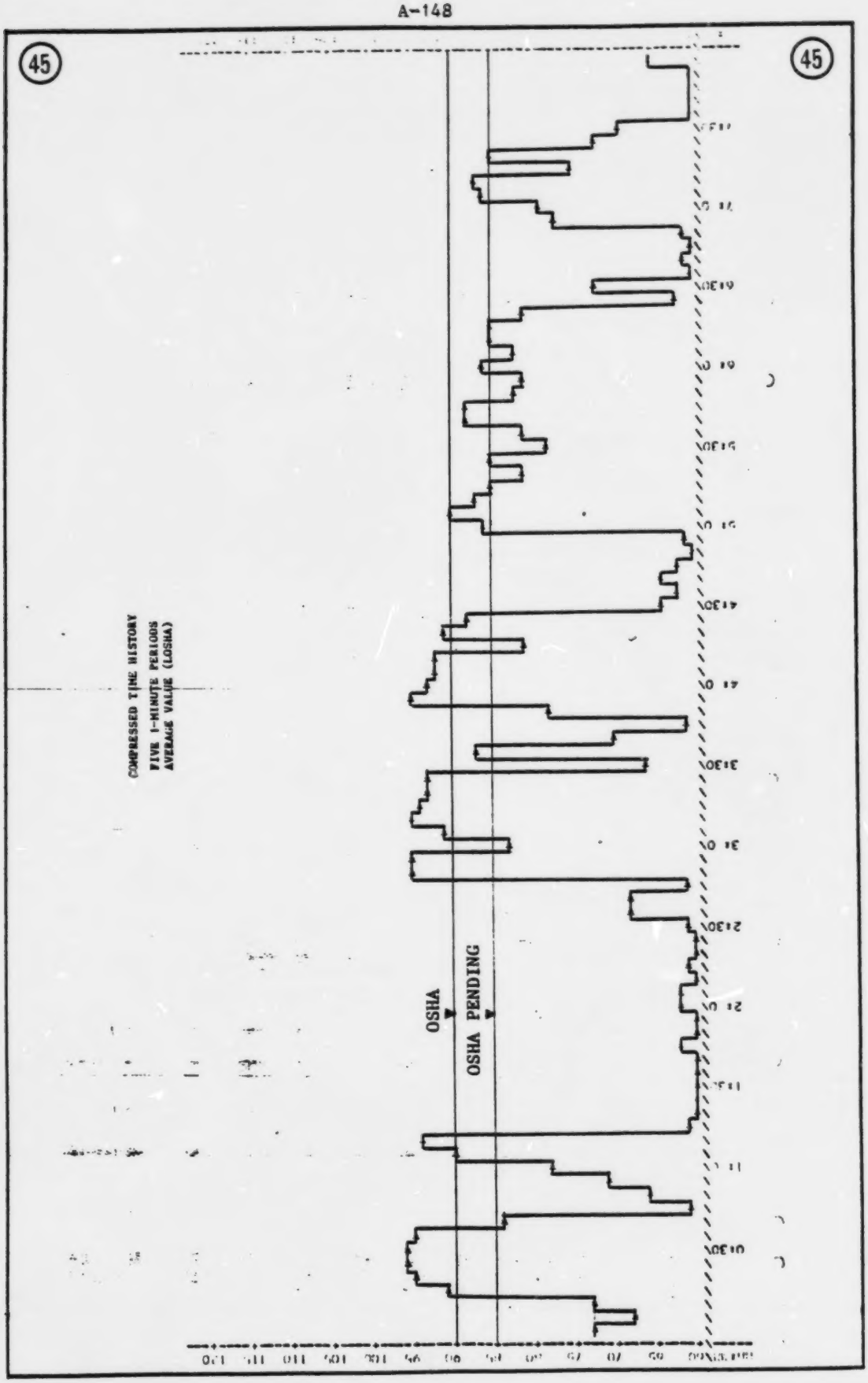
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1219   60   64    4    1
     32    115200  480
  68  71  69  80  69  67  66  66  63  73  68  67  72  77  77  78
  75  94  95  94  94  94  94  95  97  96  97  96  96  96  96  95
  96  96  95  97  98  97  84  94  93  85  80  64  66  61  62  60
  60  62  60  60  60  67  73  71  75  62  71  71  71  66  60  60
  68  95  92  74  82  91 104  93  71  62  60  63  60  60  60  60
  60  62  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  61  60  60  60  60  60  61  60  67  61  60  61  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  68  60  60  60
  60  68  60  60  60  60  60  62  60  64  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  64  61  62  63  63  65  75
  76  64  60  60  62  62  62  60  63  60  93  96  94  95  95  96
  96  95  94  94  94  61  60  68  60  63  60  93  93  96  95  95
  94  95  95  94  95  95  94  91  92  94  95  93  93  93  94  94
  94  92  60  70  70  65  60  64  60  84  94  91  80  60  60  60
  62  60  60  60  64  62  60  61  60  60  89  93  95  95  95  95
  94  95  93  92  93  92  92  93  91  92  92  93  92  92  92  92
  69  64  60  64  65  71 101  89  83  98  89  60  60  60  60  62
  60  63  69  60  60  60  68  60  60  60  60  63  71  67  60  60
  61  60  60  60  60  60  60  65  60  60  60  60  60  60  66  87
  96  95  84  90  91  84  63  86  81  85  94  86  93  81  60  75
  82  81  86  79  62  84  95  62  64  66  86  71  70  73  77  84
  81  70  64  86  85  89  94  87  80  96  87  87  73  74  84  82
  82  83  81  60  78  83  86  83  83  81  62  89  92  85  80  87
  77  65  72  78  86  87  90  87  78  83  84  90  91  71  71  60
  77  62  60  60  60  65  76  79  60  60  60  60  60  60  60  60
  62  61  60  60  60  60  60  60  60  61  63  60  60  60  60  62
  62  60  88  62  86  60  60  60  85  77  94  77  36  82  96  74
  60  87  80  74  60  72  81  77  85  90  90  72  70  63  65  66
  75  79  75  69  70  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  72  65  60
%EOF


ENTER LOG DATE (DD/MM/YR) : 18/07/79
ENTER SITE CODE (5 CHARS) : CC201
ENTER USER CODE (4 CHARS) : 4379
 ENTER JOB CODE (3 CHARS) : 281


   DATA LOGGED :18 JULY 1979          DATA ANALYZED : 14 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : CC201
SERIAL NUMBER : 1219                        JOB CODE : 281
     BASELINE : 60 DB                      USER CODE : 4379
DYNAMIC RANGE : 64 DB                      THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0               STANDBY TIME =    : 0: 0


          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOGNA                      NOISE
HOUR     CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1       89.1      89.1         11.050     11.05
   2       80.1      85.9          3.155     14.20
   3       82.4      84.9          4.336     18.54
   4       89.5      86.4         11.497     30.24
   5       85.8      86.3          6.981     37.22
   6       85.3      86.1          6.560     43.78
   7       78.9      85.4          2.660     46.45
   8       78.3      84.8          2.482     48.93
MIN. COMP. =  60 DB              MAX. COMP. = 104 DB
ARITHMETIC MEAN =  72 DB
STD. DEVIATION =  14 DB
VARIANCE =196 DB
```

(45) AMPLITUDE DISTRIBUTION (45)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
229	47.7	60 To 64
31	6.5	65 To 69
30	6.3	70 To 74
23	4.8	75 To 79
33	6.9	80 To 84
30	6.3	85 To 89
60	12.5	90 To 94
42	8.8	95 To 99
2	.4	100 To 104
0	0.0	105 To 109
0	0.0	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




45
45
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

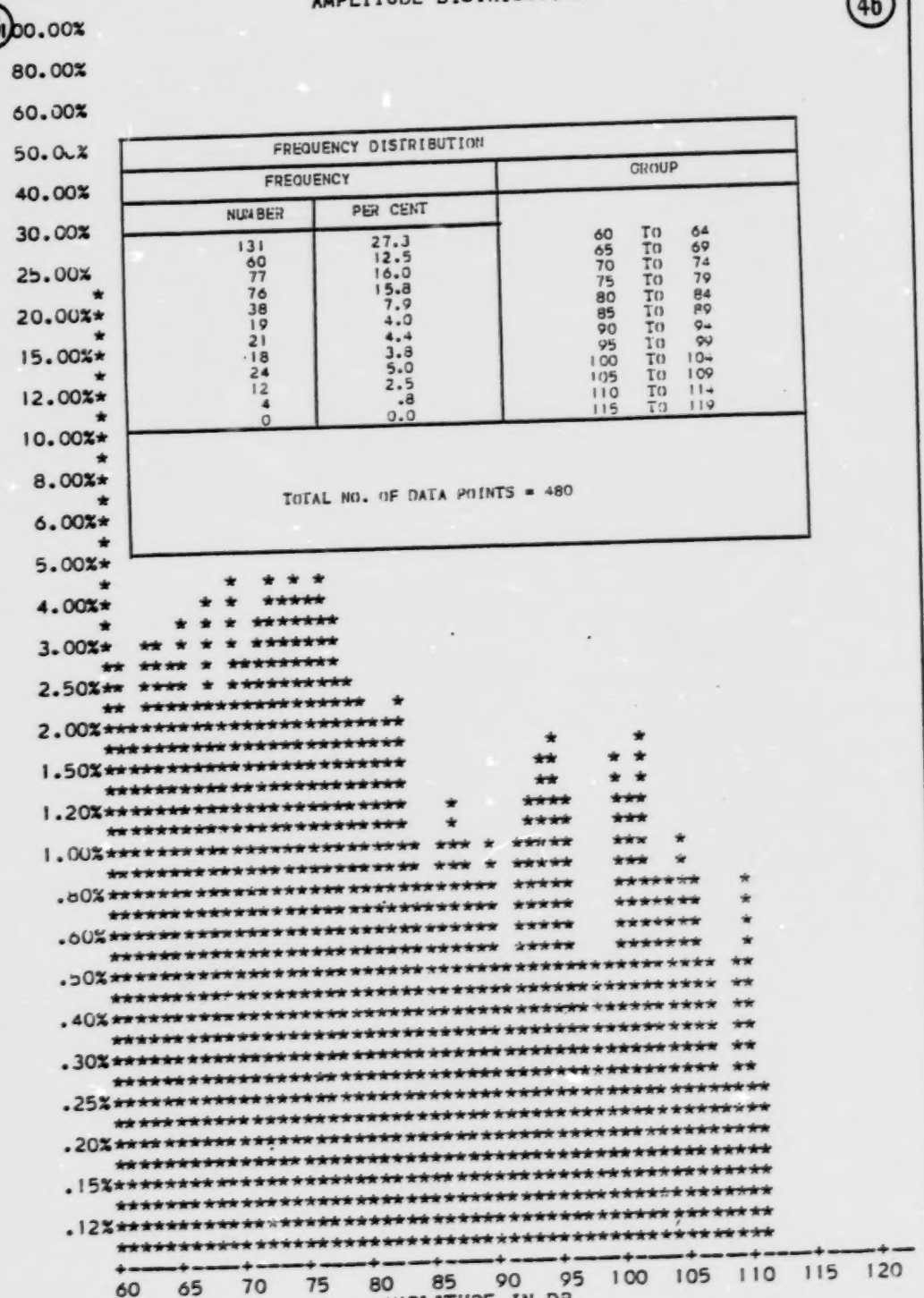
46

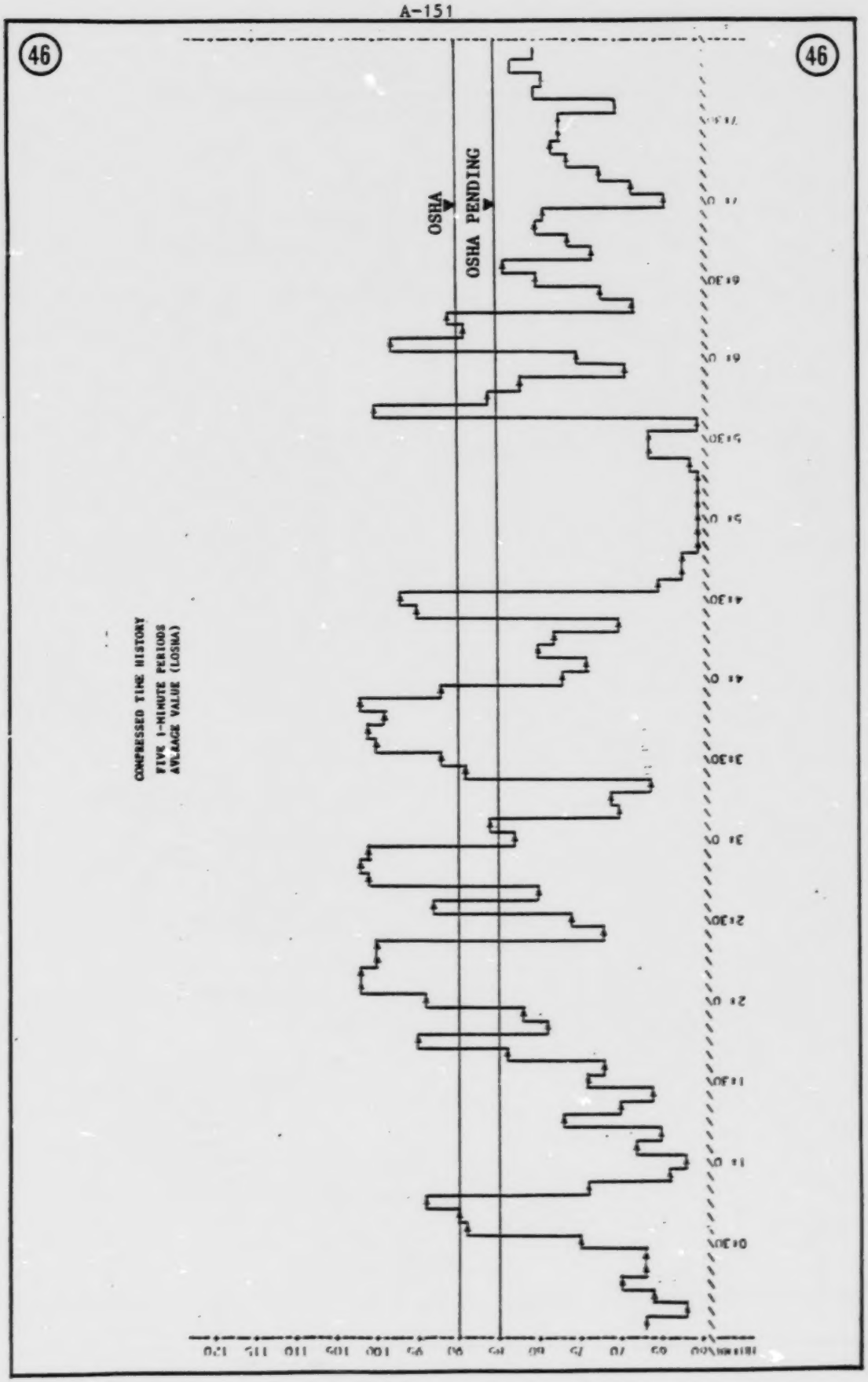
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1214   60   64    4    1
      81     115200  480
  66  66  63  60  74  65  61  62  61  62  65  72  60  60  66  66
  63  69  74  73  68  69  63  70  60  60  61  60  65  75  68  74
  78  67  79  84  88  87  92  92  95  86  85  89  92  89  96  96
  97  90  77  69  78  75  64  60  69  60  61  64  60  60  65  63
  63  70  70  60  60  71  62  67  68  63  64  75  73  80  82  61
  72  60  76  66  65  62  60  70  63  70  60  60  68  76  82  77
  70  75  60  64  60  60  71  77  95 102 100  65  77  72  80  74
  79  84  75  75  69  78  78  90  95  95  92  93  96  97  80  93
 106 110 110 107  93  64  67  93 111  76  78  73  66  72 106 107
  79  68  71  63  75  77  77  71  76  78  77  91 103  77  68  66
  66  82  75  68  87 109 105  67  74  72  77 100 102  96 110  95
 103  96 108  77  69  72  94  70  72  75  95  86  64  75  70  60
  60  70  76  79  70  69  62  60  72  67  64  60  62  64  91  97
  71  82  94  96  94  62  72  77 103 105 102  63 101 102 100 105
  73  73  71 102 100 104  99 101 100 104 106  72  88  88  70 101
  76  74  74  83  75  76  79  65  68  73  79  81  76  80  82  84
  74  69  77  76  66  68  76  72  60  70  80  71 102 101 102 105
  78  71  68  68  60  65  67  60  63  64  60  60  60  60  60  60
  61  66  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  64  60  60  60  73  66  61  63  66  70  68  60  60
  60  60  60  60  75  94  99 109  74  69  74  72  94  88  90  86
  64  60  60  61  60  64  74  74  68  71  75  73  80  73  90 101
 104  98  83  86  84  89  95 100  82  93  76  70  70  66  60  63
  73  74  66  75  68  73  78  82  61  81  85  74  65  94  70  73
  77  62  67  76  75  74  76  67  70  83  87  82  60  71  77  77
  81  78  79  78  60  63  64  60  68  73  73  60  60  60  75  61
  75  66  75  71  78  76  65  80  67  81  77  79  78  70  81  77
  76  76  72  80  65  78  79  72  60  60  72  74  73  68  61  87
  83  80  78  73  83  79  83  83  83  81  85  81  83  81  78  73
%EOF


ENTER LOG DATE (DD/MM/YR) : 15/08/79

ENTER SITE CODE (5 CHARS) : 98013
ENTER USER CODE (4 CHARS) : 4624
 ENTER JOB CODE (3 CHARS) : DAM


   DATA LOGGED :15  AUG 1979          DATA ANALYZED : 21 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 98013
SERIAL NUMBER : 1214                        JOB CODE : DAM
     BASELINE : 60 DB                      USER CODE : 4624
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0               STANDBY TIME =   0: 0:20

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                      %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      82.6      82.6          4.457      4.46
   2      81.0      81.8          3.599      8.06
   3      98.2      91.7         39.098     47.15
   4      94.3      92.4         22.700     69.85
   5      84.6      91.4          5.877     75.73
   6      83.7      90.5          5.185     80.92
   7      85.9      90.0          7.107     88.02
   8      76.9      89.2          2.031     90.05
MIN. COMP. =  60 DB              MAX. COMP. = 111 DB
ARITHMETIC MEAN =  74 DB
STD. DEVIATION =  13 DB
VARIANCE =169 DB
```

AMPLITUDE DISTRIBUTION

(46) (46)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
131	27.3	60 TO 64
60	12.5	65 TO 69
77	16.0	70 TO 74
76	15.8	75 TO 79
38	7.9	80 TO 84
19	4.0	85 TO 89
21	4.4	90 TO 94
18	3.8	95 TO 99
24	5.0	100 TO 104
12	2.5	105 TO 109
4	.8	110 TO 114
0	0.0	115 TO 119
TOTAL NO. OF DATA POINTS = 480		




46
46
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(47)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

(47)

```
 1  26  80  1224    60    64     4     1
     30      115200  480
 60  65  66  63  73  61  62  60  60  60  60  62  60  60  60  60
 61  60  60  60  66  63  61  62  82 100  97  85  83  84  88  88
 94  95 100  84  84  85  94  99  98  94  98  94  95  87  81  88
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  64  62  68  60  60  60  60  60  60  60
 71  75  72  76  75  77  80  61  60  68  64  72  61  60  60  60
 68  60  71  68  65  69  66  68  67  61  67  62  63  74  65  60
 60  60  60  60  60  63  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  61  60  60  60  61  61  74  72
 60  75  80  65  71  67  60  93  75  66  60  70  60  60  60  72
 60  60  60  60  67  66  66  65  60  71  70  75  75  78  76  73
 77  60  74  62  71  61  61  61  78  66  66  67  68  70  79  77
 73  81  82  81  75  83  61  78  77  66  79  72  76  63  65  66
 64  71  74  68  77  71  64  71  60  73  73  73  67  68  72  72
 71  65  64  68  61  60  60  68  67  71  77  75  66  65  74  62
 67  68  69  62  61  60  70  68  68  72  60  62  73  67  71  60
 69  68  64  72  72  66  61  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  63  62  61  67  68  72  73
 60  76  67  60  75  60  61  69  65  95  60  68  66  74  76  62
 60  60  72  66  60  60 104 105 105 110 108 106 111  99  61  82
 84  94 107 104  83  70  68  99 109 110 110 111 108 106 111  99
105 110 110 110 109 113  89 110 103  93 105 110 109 110 108 110
107 108  95  78  67  69  80 103 112 111 111 110 114  96 109 105
 93  83  87 104 110 111 108 109 110 107 109  85  99  75  84  83
 93 102 110 110 112 109 107 108 113 104  75  97 100 111 111 112
112 110 109  87 113  95  91  82  94 104 104 110 110 108 105 111
106 102  99 101  88  83  72  76  73  69  60  60  60  60  60  77
 83  60  60  64  66  72  67  61  72  84  66  74  71  78  62  72
 81  83  74  78  93  95  83  88  93  86  74  65  76  71  66  74
%EOF
```

ENTER LOG DATE (DD/MM/YR) : 13/08/79

ENTER SITE CODE (5 CHARS) : 98013

ENTER USER CODE (4 CHARS) : 4624
ENTER JOB CODE (3 CHARS) : DRA

DATA LOGGED :13 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1224
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 21 SEPT 1979
SITE CODE : 98013
JOB CODE : DRA
USER CODE : 4624
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0: 7

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
100% LOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		SONE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	80.1	80.1	1.942	7.94
2	67.6	82.2	.562	8.50
3	71.0	83.0	.900	9.40
4	74.2	84.9	1.397	10.80
5	64.0	77.6	.341	11.14
6	102.3	90.4	68.327	79.47
7	106.7	96.2	126.290	205.75
8	96.5	96.2	30.544	236.29

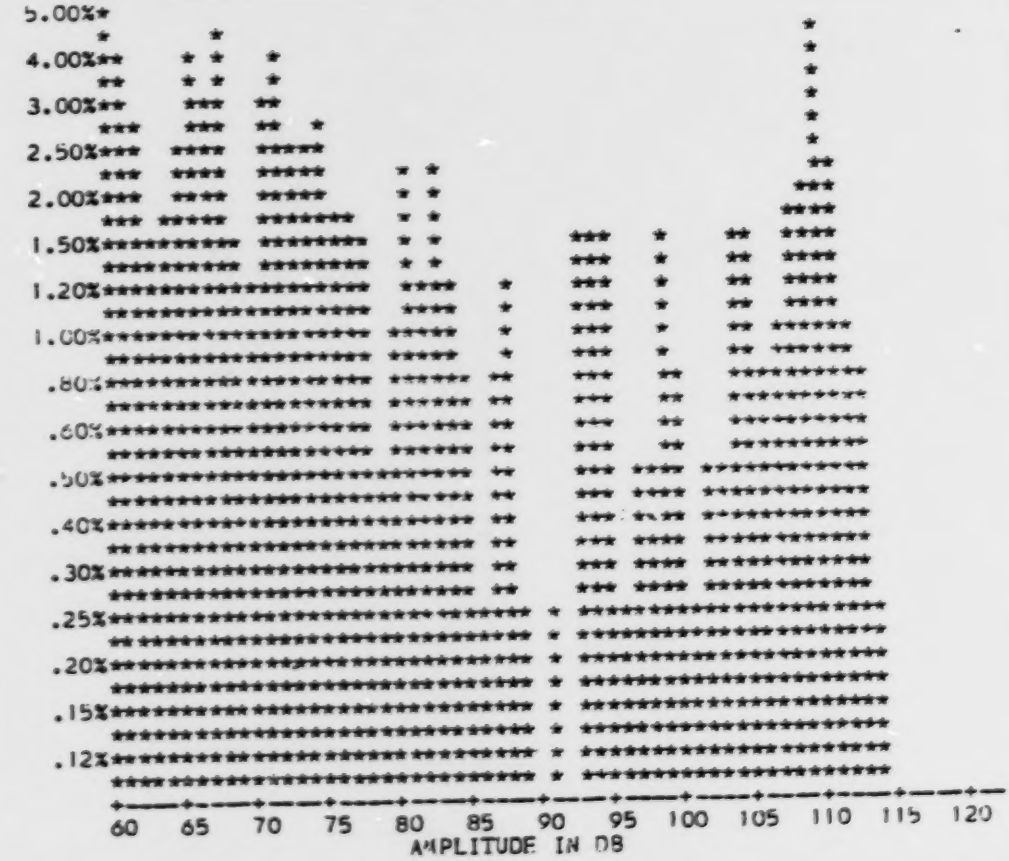
MIN. COMP. = 60 DB
MAX. COMP. = 114 DB
ARITHMETIC MEAN = 75 DB
STD. DEVIATION = 17 DB
VARIANCE =249 DB

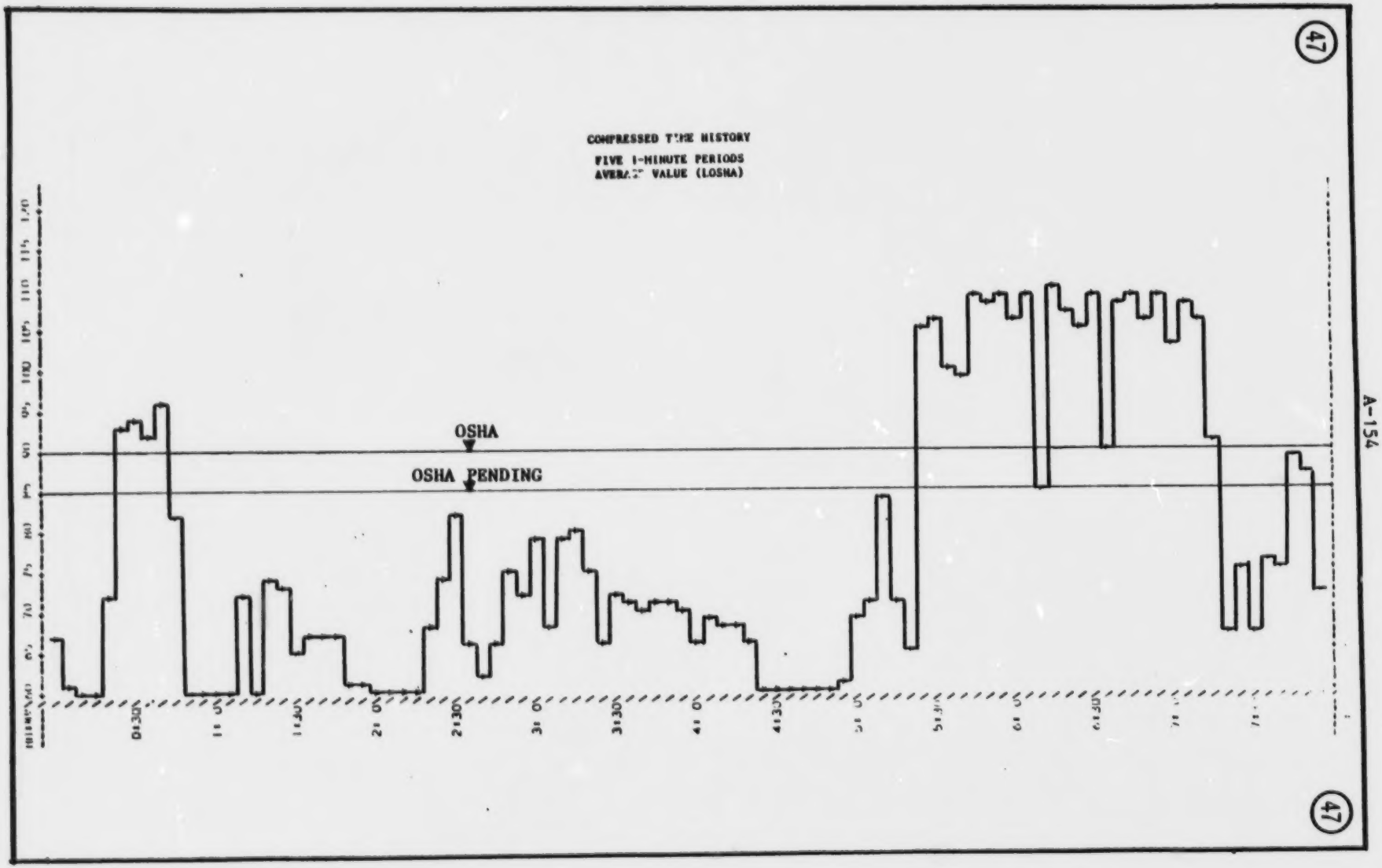
AMPLITUDE DISTRIBUTION

(47) (47)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
179	37.3	60 To 64
63	13.1	65 To 69
53	11.0	70 To 74
33	6.9	75 To 79
32	6.7	80 To 84
13	2.7	85 To 89
13	2.7	90 To 94
17	3.5	95 To 99
14	2.9	100 To 104
28	5.8	105 To 109
35	7.3	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




47
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
47

48

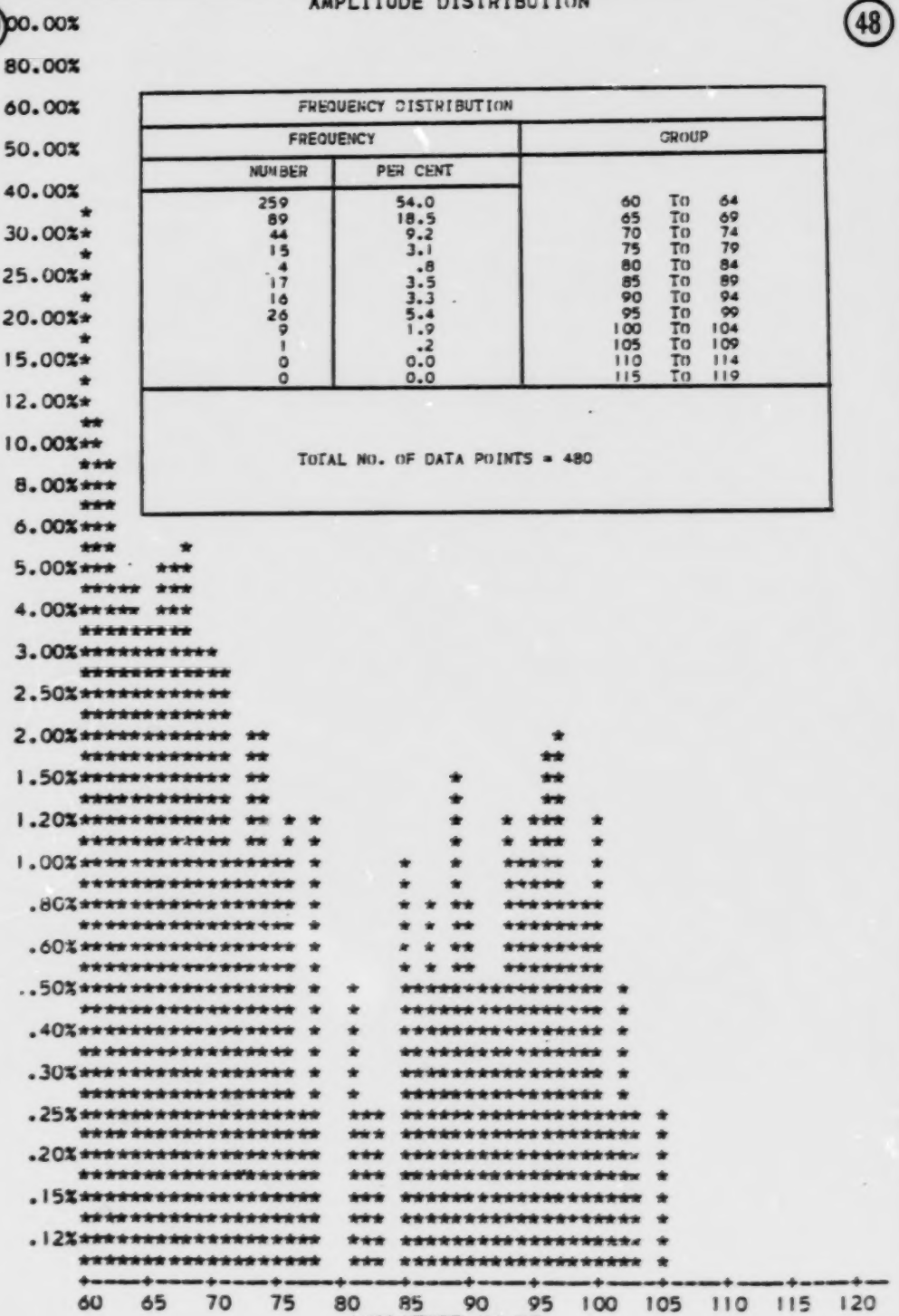
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1218   60   64    4    1
    102     115200  480
  60  60  60  60  60  66  60  61  60  60  61  62  64  67  65  68
  71  68  64  68  66  68  60  60  60  68  73  68  61  60  61  69
  75  63  71  86  90  87  89  82  90 100  98  89  87  86  87  93
  95  96  97  85  95  88  95  96  97  97  97  94  94  91  97  97
  93  98  89  96  92  97  93  86  81  81  70  74  73  61  75  75
  68  73  76  74  77  71  67  67  64  71  67  64  60  61  62  63
  60  60  60  60  60  60  60  60  60  68  64  66  73  67  62  67
  72  62  61  60  62  65  60  66  63  60  60  61  66  65  61  62
  63  60  65  62  66  61  66  60  65  63  69  60  78  70  61  66
  95  96 102  96  93 100  99  92 100  95  94  89  61  60  63  68
  71  73  69  69  64  61  65  61  60  60  66  60  67  61  62  61
  61  74  60  60  61  66  63  62  60  61  78  90 101  91  85  72
  60  67  89  94  70  60  61  65  60  69  62  62  67  70  60  62
  60  60  64  70  60  66  62  61  62  66  61  68  60  60  71  60
  60  62  60  62  61  67  68  63  61  62  60  63  60  60  60  60
  60  60  60  60  68  67  73  60  69  62  60  61  65  76  78  78
  78  76  62  68  68 100  96  64  60  67  60  61  63  61  60  60
  62  60  60  60  60  60  60  61  60  60  60  60  60  60  62  61
  60  62  60  70  69 100 105  83  60  60  60  66  62  73  60  60
  66  93 103  99 102  99  68  60  62  67  65  65  69  60  68  76
  71  74  72  67  68  61  75  71  71  60  60  60  60  60  60  60
  62  70  60  64  60  60  60  66  60  60  60  60  60  60  60  60
  61  60  60  62  60  60  60  68  60  66  66  60  60  67  67  61
  61  64  63  61  61  63  60  60  63  64  62  60  68  60  62  61
  69  64  62  63  62  60  61  66  64  60  64  60  60  60  60  64
  62  68  62  60  63  60  71  69  60  70  62  69  74  70  70  70
  61  64  63  68  65  67  71  74  69  66  60  62  60  65  67  65
  60  60  60  60  70  70  67  69  72  73  62  60  62  60  61  60
  61  61  63  65  60  74  68  76  60  65  61  60  60  60  60  60
  60  61  60  60  60  61  60  64  66  74  85  85  89  98  97  96
%EOF


ENTER LOG DATE (DD/MM/YR) : 14/08/79
ENTER SITE CODE (5 CHARS) : 32950
ENTER USER CODE (4 CHARS) : 4769
 ENTER JOB CODE (3 CHARS) : DRL


   DATA LOGGED :14  AUG 1979          DATA ANALYZED : 21 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : 32950
SERIAL NUMBER : 1218                        JOB CODE : DRL
     BASELINE : 60 DB                      USER CODE : 4769
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0:25

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                      NDOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      87.3      87.3         8.563      8.56
   2      83.6      85.7         5.182     13.74
   3      85.6      85.6         6.754     20.50
   4      78.1      84.4         2.394     22.89
   5      82.3      84.0         4.324     27.22
   6      82.7      83.8         4.520     31.74
   7      64.6      82.8          .371     32.11
   8      78.2      82.3         2.446     34.55
MIN. COMP. =  60 DB            MAX. COMP. = 105 DB
ARITHMETIC MEAN =  68 DB
STD. DEVIATION =  12 DB
VARIANCE =144 DB
```

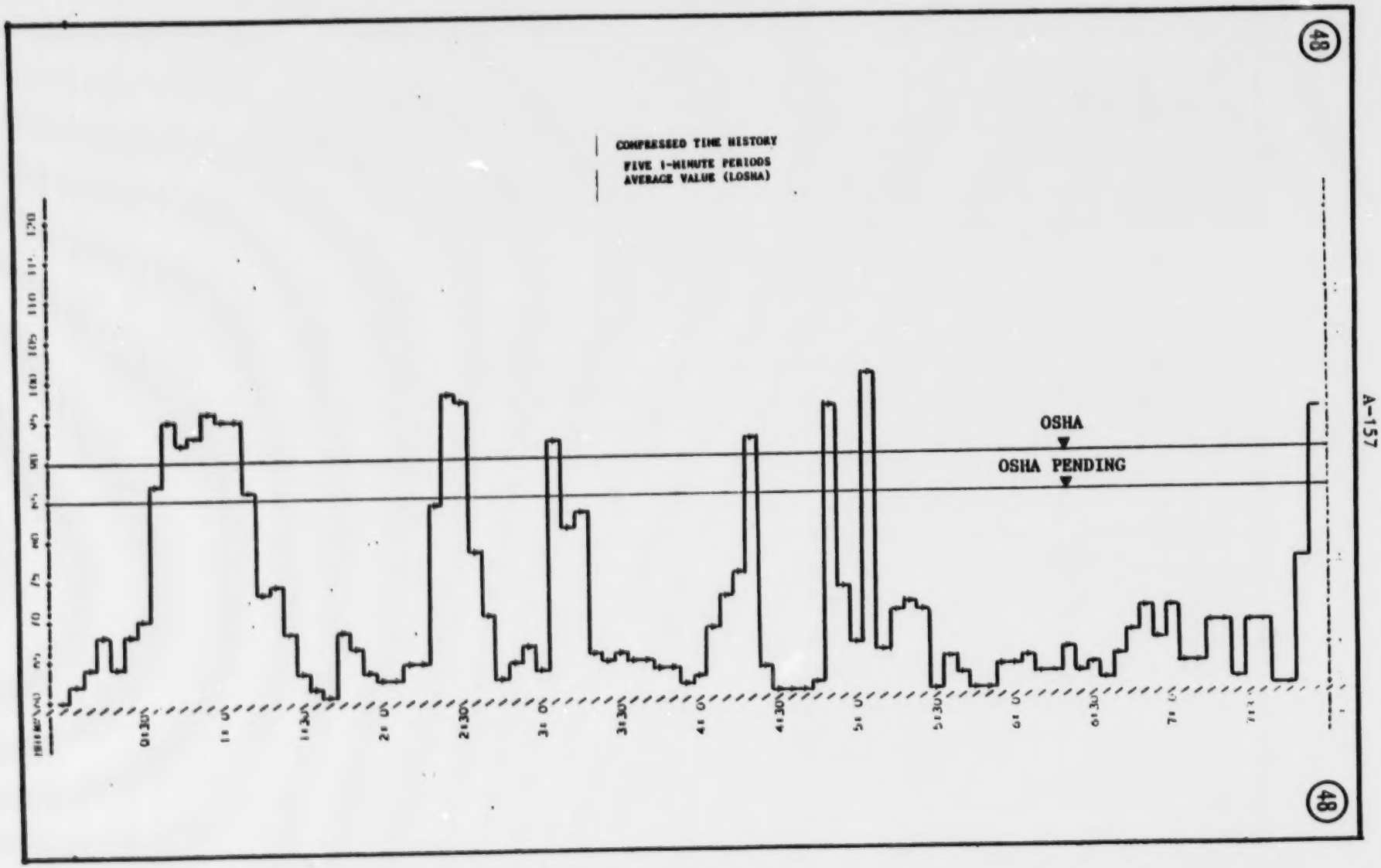
AMPLITUDE DISTRIBUTION

(48) (48)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
259	54.0	60 To 64
89	18.5	65 To 69
44	9.2	70 To 74
15	3.1	75 To 79
4	.8	80 To 84
17	3.5	85 To 89
16	3.3	90 To 94
26	5.4	95 To 99
9	1.9	100 To 104
1	.2	105 To 109
0	0.0	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




48
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
48

(49)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1226   60   64    4    1
   2407    115200  480
  61  66  60  61  66  71  70  67  65  60  60  60  66  71  71  73
  69  68  60  60  60  68  67  68  66  62  62  60  64  70  62  60
  68  62  68  60  60  60  69  64  70  60  83  86  92  88  93  95
  95  90  90  89  93  95  92  95  95  93  94  93  94  94  97  80
  75  73  71  60  60  62  61  60  60  60  60  60  61  65  60  62  70
  63  66  60  60  60  60  60  64  60  60  60  60  60  60  63  69
  71  66  69  65  88 102  83  75  82  83  83  76  79  80  67  81
  60  76  81  77  82  82  79  87  81  81  84  97 108  97  88  98
 104 107 102 105 106 109 107 110 108 105 107 105 109 108 105 109
 108 107 108 103  83  84  90  80 108 105 105 104 105 108 108 110
 106 107 106 101 111  99  88  80  89  92  96  69  67  63  70  77
  70  70  71  69  82  82  81  79  79  81  82  81  81  81  86 106
 105 107 107  99  97 107 106 106 103 109 106 107 109  90 108 105
 106 107 102  83  84  83  97  88  99  90 101 101 100 101 103 105
 102 102 104  76  67  74  80  74  72  70  67  64  64  67  63  62
  71  67  83  82  92  80  76  67  62  63  60  60  60  60  60  60
  60  60  60  60  61  64  64  60  60  60  60  60  61  63  60  61
  60  60  60  60  62  62  63  62  61  64  63  60  61  63  66  68
  60  71  73  67  68  68  92 100  84  84  84  84  87  84 103 108
 102 104  98 109 109 107 107 107 104 107 105 107 106 109 107 108
 108 107 106 107 106 106 109 108 109 107 107 107 106 107 106 107
 106 106 107 108 107 106 106 105 107 105 105 106 107 105 107 107
 105 103 102 103 103 103 106 104 107 104 106 105 102  87  80  83
  82  92  89  93  94  93  94  94  92  94  92  93  90  91  93  93
  93  98 107  93  75  79  66  93  97  76  64  61  78  71  70  69
  66  64  86  85  90  80  64  60  70  75  84  80  61  63  62  68
  71  73  75  73  68  70  61  69  70  79  75  72  60  63  65  62
  60  64  64  69  69  72  68  61  74  70  73  98  88  65  61  61
  69  60  60  61  60  62  60  63  62  60  63  73  78  66  63  61
  60  60  60  60  60  60  60  63  61  72  81  90  97  92  94  99
%EOF
```

(49)

```
ENTER LOG DATE (DD/MM/YR) : 15/08/79
ENTER SITE CODE (5 CHARS) : 32950
ENTER USER CODE (4 CHARS) : 4766
 ENTER JOB CODE (3 CHARS) : DRI
```

```
   DATA LOGGED :15  AUG 1979          DATA ANALYZED : 21 SEPT 1979
       LOGGER : D8-301/26                 SITE CODE : 32950
SERIAL NUMBER : 1226                       JOB CODE : DRI
     BASELINE : 60 DB                     USER CODE : 4766
DYNAMIC RANGE : 64 DB                     THRESHOLD : 60 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
 TEST DURATION =   8: 0: 0          STANDBY TIME =   0:10: 1
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

TIME	OSHA		NOISE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	84.1	84.1	5.517	5.52
2	81.3	82.8	3.733	9.25
3	103.3	96.1	78.563	87.81
4	99.9	97.3	49.172	136.99
5	77.6	95.8	2.237	139.22
6	106.0	98.8	115.626	254.85
7	92.8	98.2	18.468	273.32
8	80.7	97.3	3.440	276.76

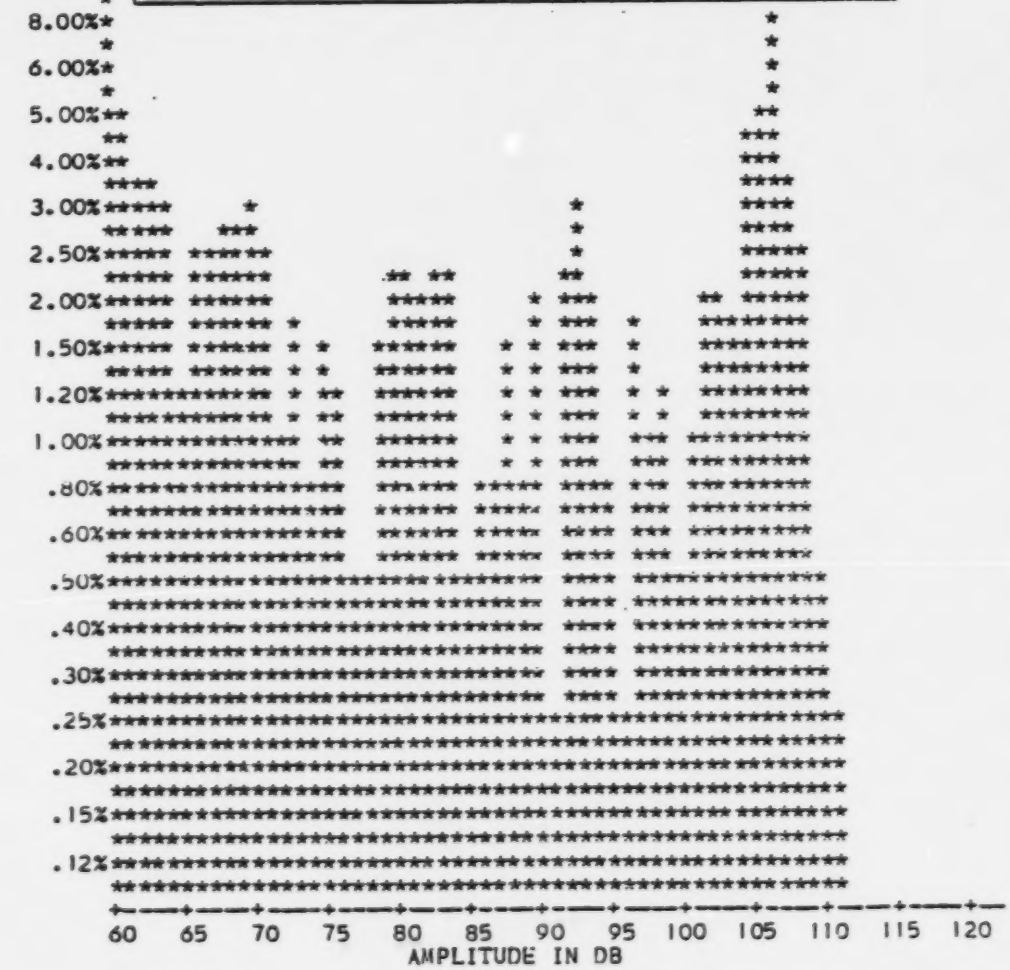
```
MIN. COMP. =  60 DB                MAX. COMP. = 111 DB
ARITHMETIC MEAN =  81 DB
STD. DEVIATION =  18 DB
VARIANCE =324 DB
```

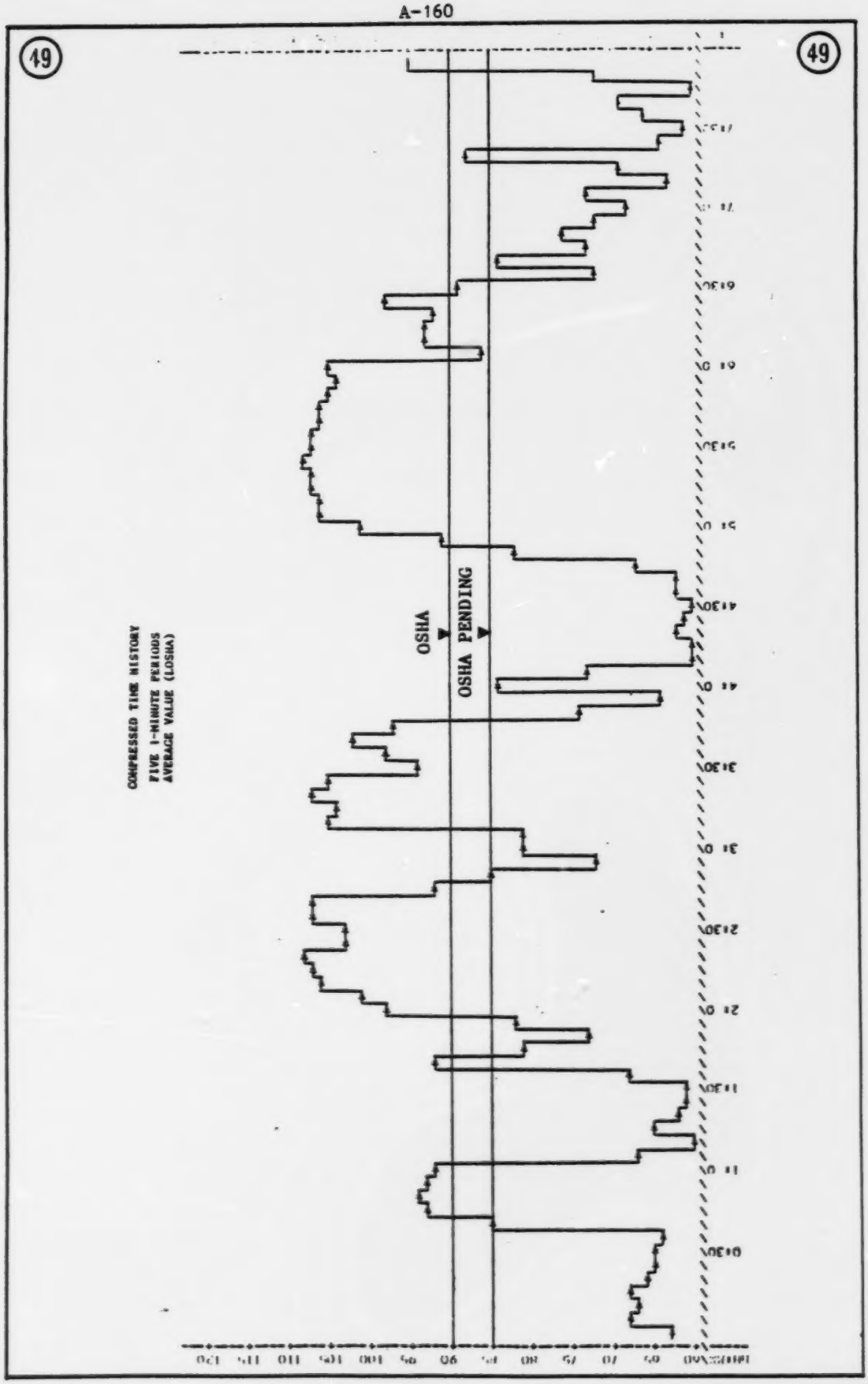
AMPLITUDE DISTRIBUTION

(49) (49)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
131	27.3	60 TO 64
47	9.8	65 TO 69
37	7.7	70 TO 74
21	4.4	75 TO 79
44	9.2	80 TO 84
17	3.5	85 TO 89
38	7.9	90 TO 94
20	4.2	95 TO 99
29	6.0	100 TO 104
93	19.4	105 TO 109
3	.6	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




49
49
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0130
1
1130
2
2130
3
3130
4
4130
5
5130
6
6130
7

50 50

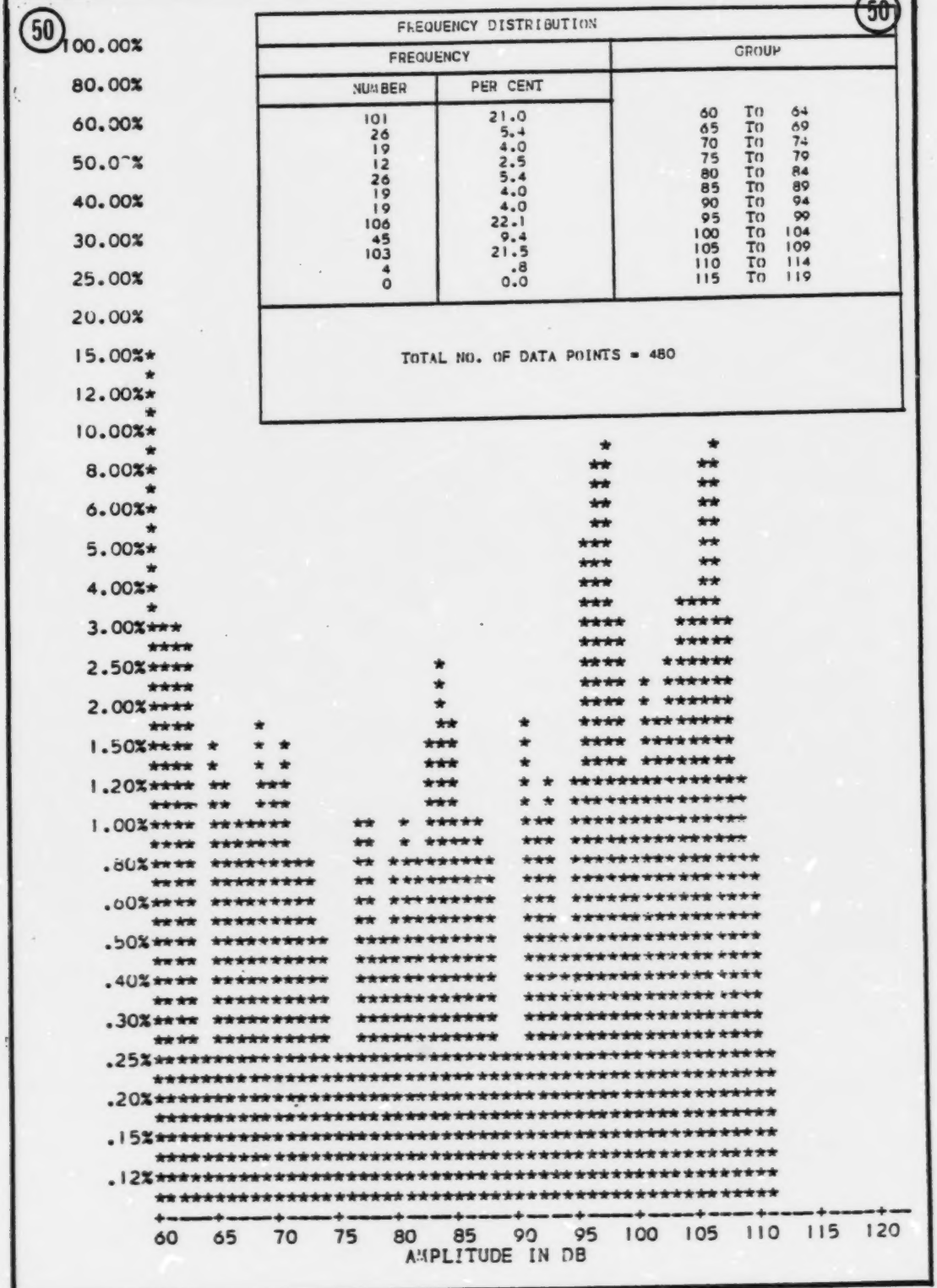
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1226   60   64    4    1
     986     115200  480
  70  62  61  61  62  60  62  60  60  68  66  60  60  68  63  68
  62  65  71  64  63  69  61  69  60  60  60  61  63  63  66  85
  98  97  87  84  84  90  88  96  96  98  91  86  87  91  97  96
  92  97  94  92  88  70  92  86  91  97  95  93  86  93  93  83
  78  96  96  94  96  92  93  93  96  89  60  60  63  72  67  65
  60  60  66  60  61  61  60  60  60  83  95  60  63  71  69  61
  60  85  81  63  62  72  62  69  60  61  60  61  62  62  62  73
  60  62  69  71  60  87  60  61  60  60  60  60  60  60  60  60
  60  60  60  73  83  74  60  61  63  60  60  60  60  82  81  85
  82  78  76  88  84  83  62  80  83  80  60  60  80  81  79  84
  85  86  78  77  77  71  65  73  62  60  72  71  70  74  66  67
  67  70  77  78  65  69  71  84  83  87  97  98  97  97  96  96
  96 106 108  99 107 106  99  98 104 108 103  99  98 107 107 100
 106 106 105 101 107 106 101 104 106 105 103  99 107 104 100  98
  98  98  98  98  98  98  99  98  97  97  97  96 103 107 100 105
 106 104  96 107 106 103 106 109 106 103  97 108 107 107  99 105
 107 107 106  98 110 107 106 101 106 107 104  84  69  63  63  60
  60  60  62  60  60  60  60  60  60  60  60  66  60  60  60  60
  60  60  60  60  61  60  96  98  96  77  60  60  81  85  95  99
  98  98  98  98  98  98  98  98  96  96  97 105 107 101 105 105
 102 107 107 105 103 107 107 104 107 107 107 102 108 108 107 105
 106 107 107 103 104 107 103  99  98  97  98  98  98  97  97  97
 107 101 105 102 107 106 101 107 106 104 103 110 108 107 102 108
 106 106 104 105 106 106 104 106 106 106 106  97  97  98  97  99
  98  98  96  97 105 106 100 106 105  98 108 106  99 104 109 106
 102 105 107 106 101 107 107 106 101 107 106 102  97  98  97  97
  98  97  97  96  96  97 108 104 105 106 102 108 107 103 109 109
 108 100 106 107 107 104 104 111 108 108  97 110 109 107 101  98
  97  97  98  98  97  99  91  84  84  84  85  84  85  82  79  65
  63  67  65  70  75  68  91  96  96  95  95  91  99  97  91  97
%EOF


ENTER LOG DATE (DD/MM/YR) : 13/08/79
ENTER SITE CODE (5 CHARS) : 32950

ENTER USER CODE (4 CHARS) : 7745

 ENTER JOB CODE (3 CHARS) : DGM


   DATA LOGGED :13  AUG 1979          DATA ANALYZED : 21 SEPT 1979
        LOGGER : DB-301/26                SITE CODE : 32950
SERIAL NUMBER : 1226                       JOB CODE : DGM
      BASELINE : 60 DB                    USER CODE : 7745
DYNAMIC RANGE : 64 DB                    THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 4: 6

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                      %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      87.7      87.7          9.058      9.06
   2      83.8      86.0          5.284     14.34
   3      76.3      84.0          1.882     16.22
   4     101.7      93.4         63.418     79.64
   5     100.0      95.3         49.817    129.46
   6     103.2      97.3         78.047    207.51
   7     103.9      98.7         86.367    293.87
   8     101.6      99.2         62.478    356.35
MIN. COMP. =  60 DB              MAX. COMP. = 111 DB
ARITHMETIC MEAN =  87 DB
STD. DEVIATION =  18 DB
VARIANCE =324 DB
```

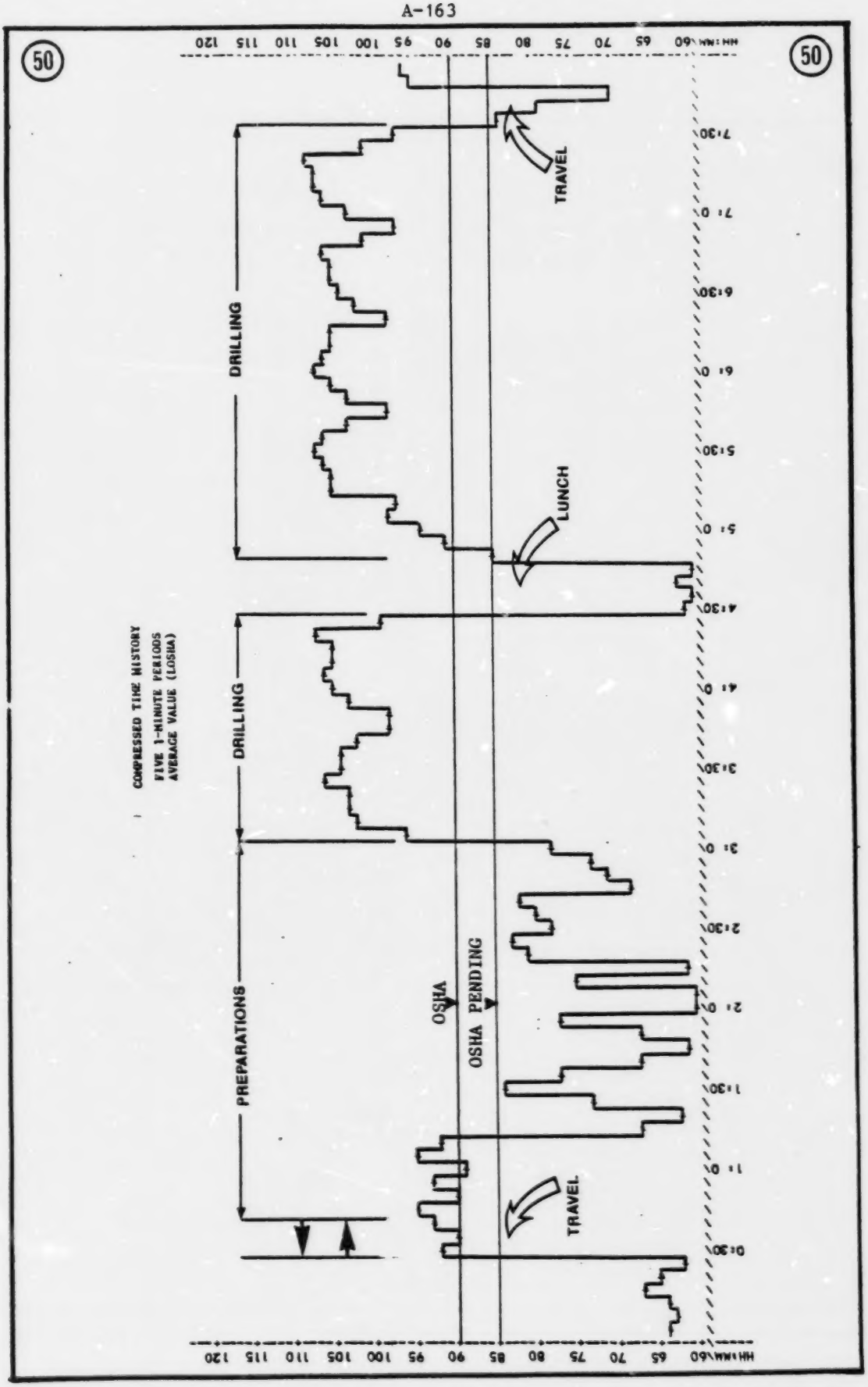
(50)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
101	21.0	60 To 64
26	5.4	65 To 69
19	4.0	70 To 74
12	2.5	75 To 79
26	5.4	80 To 84
19	4.0	85 To 89
19	4.0	90 To 94
106	22.1	95 To 99
45	9.4	100 To 104
103	21.5	105 To 109
4	.8	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480

(50)




50
50
HH:MM\60 65 70 75 80 85 90 95 100 105 110 115 120
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
PREPARATIONS
DRILLING
DRILLING
TRAVEL
LUNCH
OSHA
OSHA PENDING
TRAVEL
0:30
1: 0
1:30
2: 0
2:30
3: 0
3:30
4: 0
4:30
5: 0
5:30
6: 0
6:30
7: 0
7:30

51

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

51

```
  1  26  80  1219   60   64    4    1
     107    115200  480
 60  61  60  60  60  60  60  60  61  61  60  60  60  60  60  63
 62  64  65  61  71  63  63  61  63  60  62  60  62  60  60  60
 60  60  62  60  60  61  75  91  81  80  79  82  98 100  86  89
 82  86  85  96  96  96  92  92  89  93  96 100  95  98  92  97
 92  79  60  60  60  60  60  60  60  60  60  61  60  60  72  60
 60  71  96  97  91  92  87  89  92  95 101  87  88  96 108 115
113 115 115 112 115 114 113 116 112 110 112 112 109 111 105 105
105 111 112 112 116 107 102  91  98  95  89  95  84  83  84  84
 86  85  89  89  85  88  85  85  86  87  88  88  85  83  84  84
 83  95  85  96  91  85  96  96  87  96  89  90  93  88  96  97
 96  94  89  93  92  96  90  93 100  91  93 105 108 109  94  98
103  95 101 111 111 113 112 107 110 109 107 112 113 111 111 106
110 109 107 101 104 106 107 106 105 106 106 106 105 104 104 103
106 106 105 103 102 107 107 105 103 102 102 101  87  87  90  98
 99  95  87  87  88  92  88  93  95  92  87  86  97  94  86  94
 88  87  92  96  87  88  94  97  91  89  90  89  94  95  88  89
 89  92  94  94  94  88  91  82  60  61  60  61  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  61
 65  60  60  60  60  60  60  60  65  64  60  60  60  60  60  60
 60  60  60  60  62  60  60  60  61  60  60  60  60  60  60  60
 60  60  60  60  62  60  60  60  60  60  69  60  63  60  63  62
 60  91  85  83 100 101  91  98 108 109 107  96  99  92  83  85
 84  85  83  84  85  91  90  83  85  99 106 107 106 106 104  94
106 104 103 101 101  99 101 107 108 106 101 102  96  93 104 108
109 108 107 109 107 107 108 106 108 107 107 105 102 101  90  89
 93  97  93  87  91  90  86  95  96  99  96  97  94  86  89  95
 91  95  97  90  62  68  90  92  95  97  94  96  95  83  82  86
%EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 14/08/79
ENTER SITE CODE (5 CHARS) : 35950
ENTER USER CODE (4 CHARS) : 4486
 ENTER JOB CODE (3 CHARS) : DGM
```

```
   DATA LOGGED :14  AUG 1979          DATA ANALYZED : 21 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 35950
SERIAL NUMBER : 1219                        JOB CODE : DGM
      BASELINE : 60 DB                     USER CODE : 4486
DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0:26
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

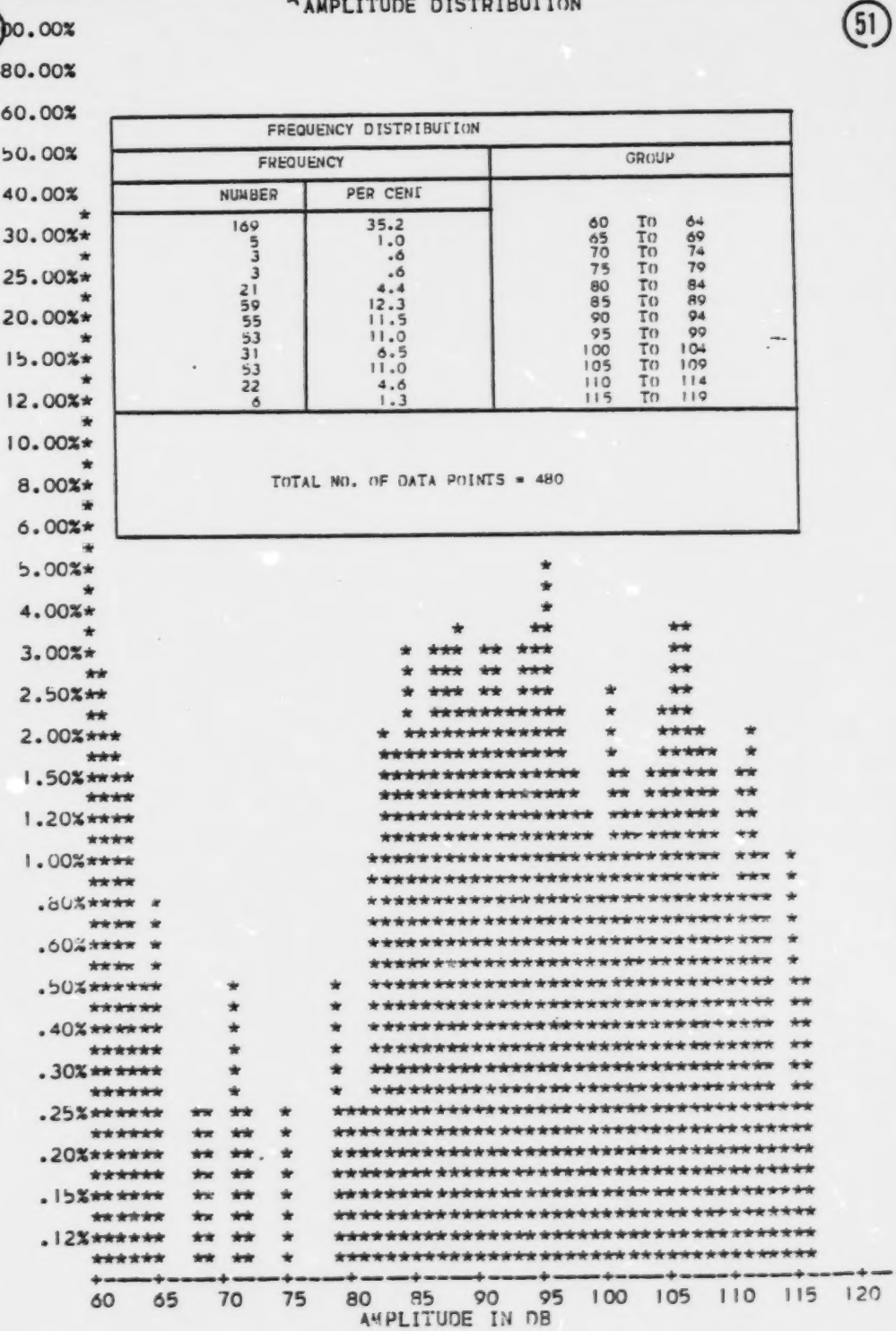
TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	85.3	85.3	6.538	6.54
2	106.1	101.5	115.794	122.33
3	95.7	100.0	27.438	149.77
4	104.8	101.5	97.174	246.94
5	85.1	100.1	6.314	253.26
6	60.4	98.8	.206	253.46
7	96.2	98.5	29.635	283.10
8	100.9	98.8	56.533	339.63

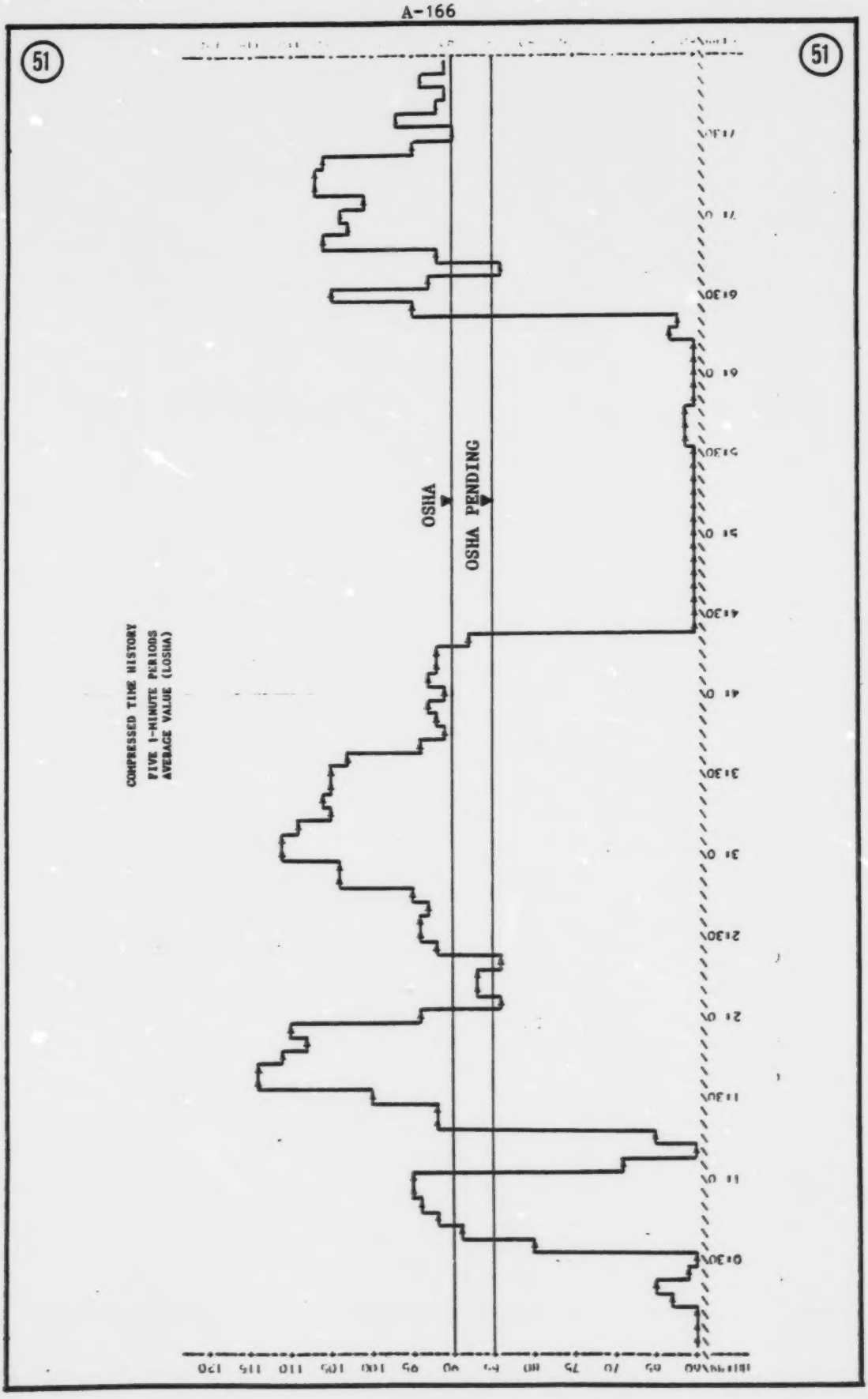
```
MIN. COMP. =  60 DB              MAX. COMP. = 116 DB
ARITHMETIC MEAN =  83 DB
STD. DEVIATION =  19 DB
VARIANCE =361 DB
```

AMPLITUDE DISTRIBUTION

(51) (51)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
169	35.2	60 TO 64
5	1.0	65 TO 69
3	.6	70 TO 74
3	.6	75 TO 79
21	4.4	80 TO 84
59	12.3	85 TO 89
55	11.5	90 TO 94
53	11.0	95 TO 99
31	6.5	100 TO 104
53	11.0	105 TO 109
22	4.6	110 TO 114
6	1.3	115 TO 119
TOTAL NO. OF DATA POINTS = 480		



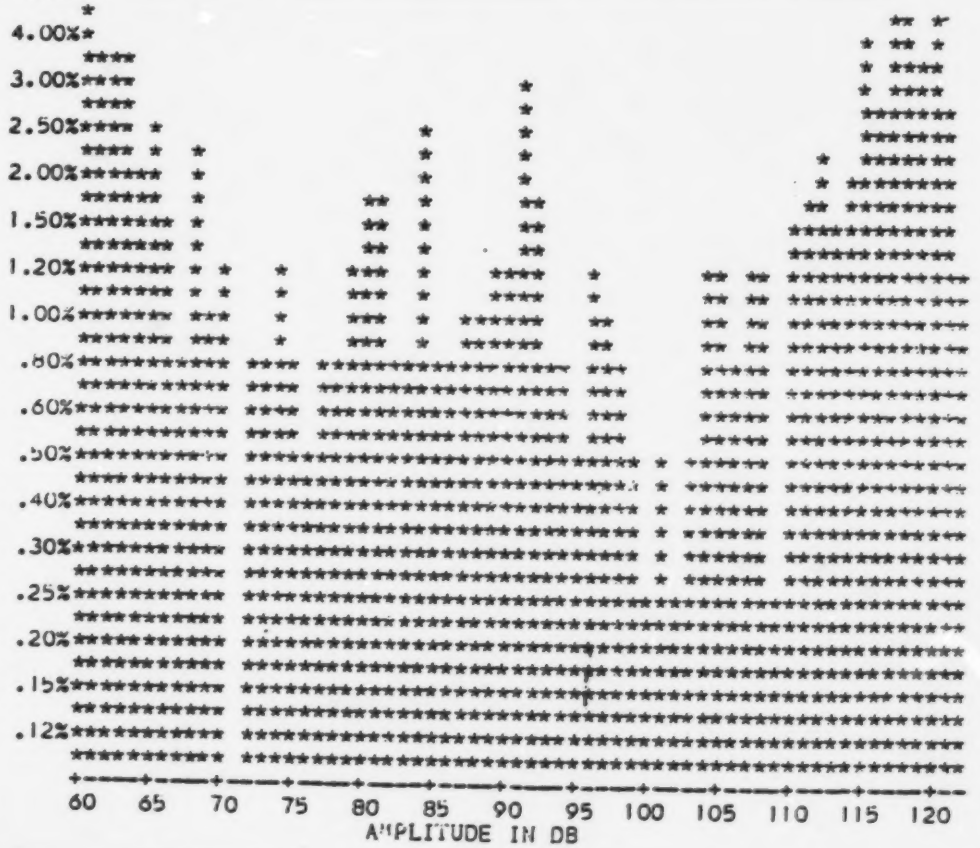

51
51
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1 0
1:30
2 0
2:30
3 0
3:30
4 0
4:30
5 0
5:30
6 0
6:30
7 0
7:30
120
115
110
105
100
95
90
85
80
75
70
65

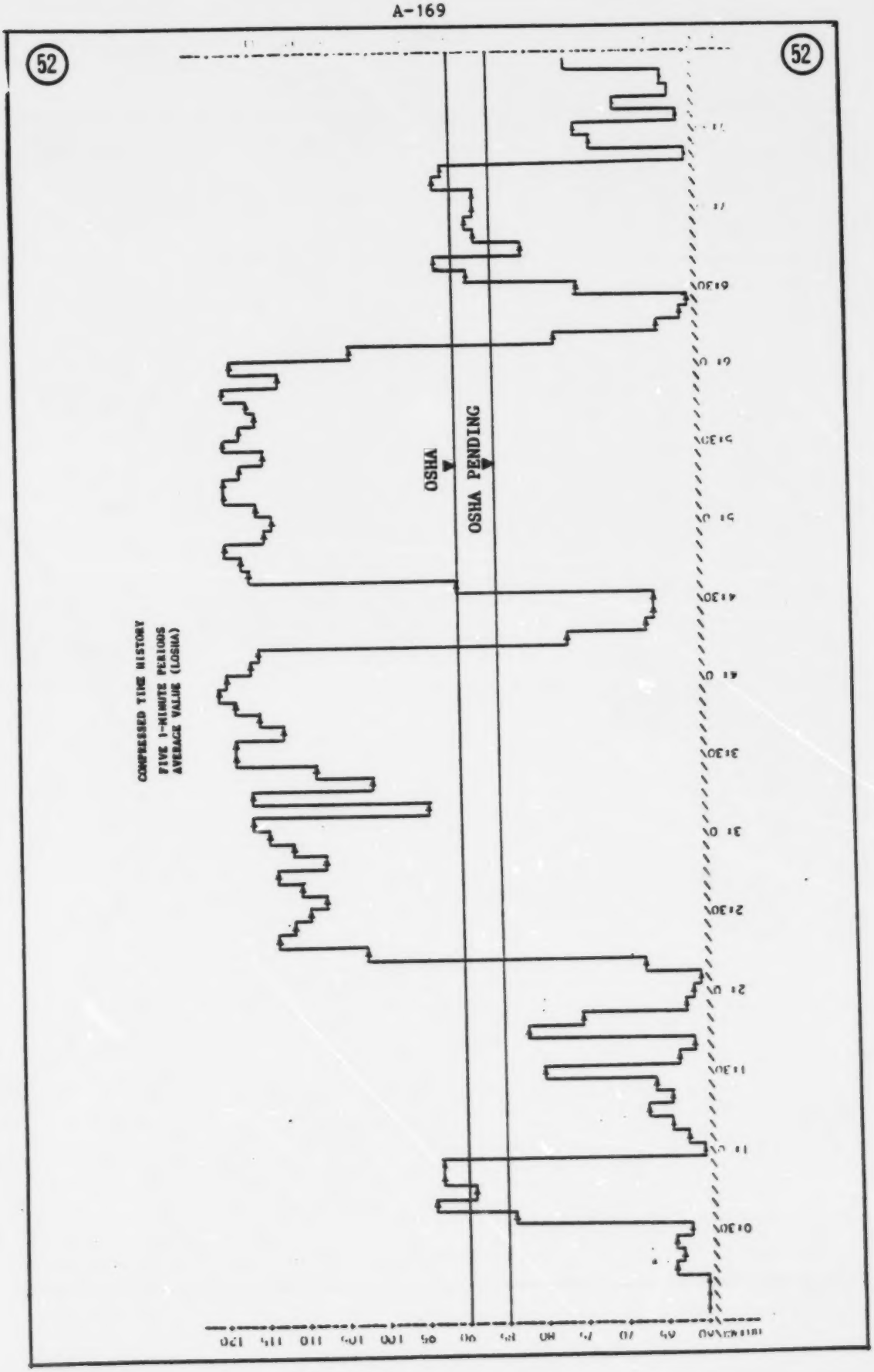
52

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1225   60   64    4    1
    104    115200  480
  62  60  60  60  60  60  60  62  60  60  60  60  60  62  60  64
  62  64  66  64  60  62  63  65  65  62  64  65  60  68  60  65
  63  63  60  60  77  92  81  81  83  82  97 101  90  90  84  87
  84  94  95  96  93  89  91  91  96  99  84  62  60  60  60  60
  60  60  60  60  60  68  60  60  60  63  70  66  73  64  66  63
  65  63  65  62  64  60  60  66  70  70  66  84  84  81  74  68
  61  60  60  60  60  63  60  60  61  60  61  65  77  92  84  74
  61  60  60  66  60  62  60  62  60  64  62  60  60  60  60  60
  60  60  60  74  60  67  63  69  68  82 104 111 117 113 110 102
 114 103 104 108 116 115 117 113  75  80  75  78  97 116 105  97
 105 101 115 104 114 114 100 116 114 115 115 106  70  72 105  85
 111  98 108 119 118 112 110 106 118 115 115 116 118 117 104  81
  80  79  87 112 118 117 117 117 107  86  80 105  96 103 107 112
 110 107 117 116 116 121 118 121 117  81 120 120 113 119 114  83
  89 105 106 112 120 118 112 120 117 121 119 121 120 120 119 117
 120 117 121 120 111 112 120 118 117 112 120 118 113 115  80  83
  75  78  67  63  68  68  67  65  63  73  61  60  60  60  60  60
  61  61  73  69  82  77  92  98 111  93 118 119 118 118 108 112
 122 118 122 116 119 121 115  99  98  87 121 120 111  84  85 120
 115 117 115 117  95 116 120 117 119 121 116 120 119 114 121 120
 111 108 119 118 122 109 107 116 120 110 115 115 122 121 118 114
 122 118 113 115 112 113 115 116 115 119 117 110 117 114 120 119
 116 119 118 104  97 108 110 121 120 118 115 119 119 111 107  80
  81  80  79  79  74  74  79  65  69  60  60  60  60  60  63  60
  60  62  60  60  60  60  68  60  60  61  84  84  91  91  60  91
  91  92  94  93  92  84  60  63  78  88  87  62  76  91  91  68
  91  90  89  89  89  88  90  79  81  61  92  63  86  91  96  88
  90  91  94  96  91  92  88  72  61  60  60  60  60  61  60  68
  70  80  85  62  60  60  60  60  61  60  61  61  76  72  63  62
  60  60  65  64  60  60  60  60  60  69  60  60  60  60  60  86
%EOF


ENTER LOG DATE (DD/MM/YR) : 14/08/79
ENTER SITE CODE (5 CHARS) : 98004

ENTER USER CODE (4 CHARS) : 4637

 ENTER JOB CODE (3 CHARS) : DGM


   DATA LOGGED :14  AUG 1979          DATA ANALYZED : 21 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 98004
SERIAL NUMBER : 1225                        JOB CODE : DGM
     BASELINE : 60 DB                       USER CODE : 4637
DYNAMIC RANGE : 64 DB                       THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 0:26

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 95 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                      %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      85.3      85.3          6.514      6.51
   2      71.5      81.3           .962      7.48
   3     107.7     100.2        145.803    153.28
   4     115.0     107.3        400.649    553.93
   5     113.0     108.9        301.809    855.74
   6     116.6     110.9        497.832   1353.57
   7     101.8     110.1         63.913   1417.48
   8      82.4     109.1          4.343   1421.87
MIN. COMP. =  60 DB            MAX. COMP. = 122 DB
ARITHMETIC MEAN =  87 DB
STD. DEVIATION =  23 DB
VARIANCE =529 DB
```

52 AMPLITUDE DISTRIBUTION 52

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
145	32.5	60 TO 64
32	7.2	65 TO 69
16	3.6	70 TO 74
16	3.6	75 TO 79
30	6.7	80 TO 84
19	4.3	85 TO 89
30	6.7	90 TO 94
16	3.6	95 TO 99
11	2.5	100 TO 104
19	4.3	105 TO 109
36	8.1	110 TO 114
76	17.0	115 TO 119
TOTAL NO. OF DATA POINTS = 480		



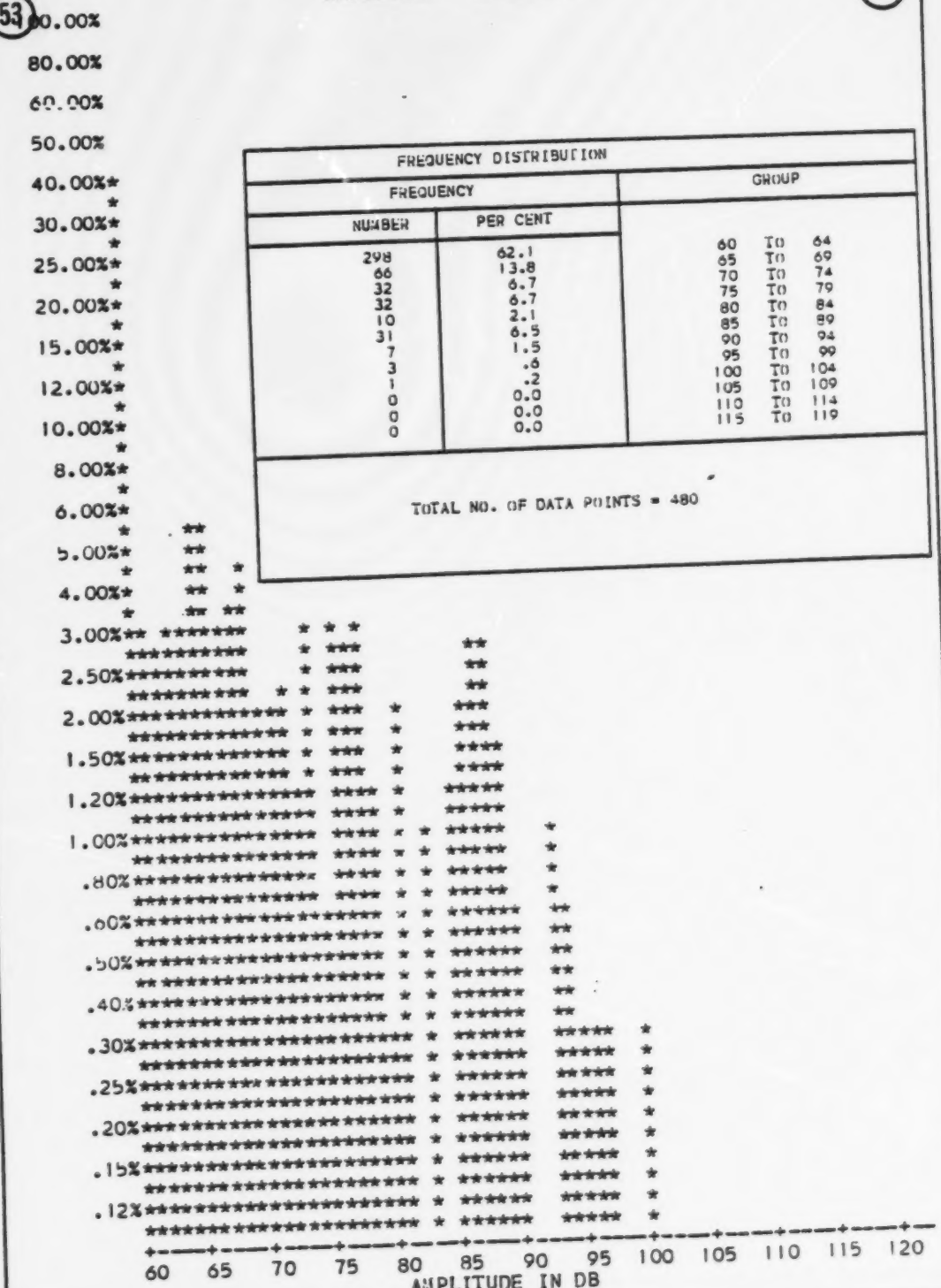

52
52
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:30
2:30
3:30
4:30
5:30
6:30

(53) PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN' (53)

```
  1  26  80  1226    60   64    4    1
 58713      80716  336
 64  63  60  60  60  60  62  60  60  60  60  60  60  64  66  66
 68  69  73  63  60  60  60  70  62  69  67  65  76  79  60  69
 69  60  60  64  90  83  85  83  74  69  69  83  89  66  85  86
 93  93  94  94  76  93  88  95  80  60  60  60  66  77  60  60
 64  68  60  60  60  60  60  62  60  60  60  60  60  60  60  60
 76  86  89 100  86  86  76  77  72  73  78  65  65  67  77  72
 71  72  78  77  72  65  63  74  78  74  66  70  79  74  65  69
 77  74  76  60  66  61  81  60  76  81  65  68  66  60  60  60
 60  61  67  74  64  62  67  60  76  68  70  64  66  66  64  74
 70  60  60  60  60  60  60  60  60  60  60  60  61  79  81  72
 60  62  76  63  60  66  65  60  68  61  69  67  68  65  73  81
 81  77  81  79  75  69  76  77  72  65  71  78  65  66  60  67
 69  69  61  68  67  65  60  60  60  62  64  60  65  65  68  66
 69  60  61  64  78  72  63  67  63  63  66  61  65  67  60  60
 65  68  70  65  60  77  78  78  71  71  60  73  69  60  66  60
 60  60  60  60  60  60  66  62  69  69  71  63  61  66  68  66
 60  76  86  96  75  65  63  50  71  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  62  74  86  87  87  88  87  87  97  90  87  88
 88  87  88  87  89  88  87  86  88  85  78  70  64  74  66  61
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
%EOF


ENTER LOG DATE (DD/MM/YR) : 14/08/79
ENTER SITE CODE (5 CHARS) : 98034
ENTER USER CODE (4 CHARS) : 4410
 ENTER JOB CODE (3 CHARS) : DGH


   DATA LOGGED :14  AUG 1979          DATA ANALYZED : 21 SEPT 1979
        LOGGER : DB-301/2G                SITE CODE : 98034
SERIAL NUMBER : 1226                       JOB CODE : DGH
      BASELINE : 60 DB                    USER CODE : 4410
DYNAMIC RANGE : 34 DB                     THRESHOL  :  60 DB
SAMPLING RATE :  4/SEC               TOTAL SAMPLES =  80716
TEST DURATION =  5:36:19              STANDBY TIME =  41 41:36

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 336
PERIOD =  1 MINUTES

TIME          LOSHA                    %DOSE
HOUR     CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1       81.9       81.9        4.079       4.08
   2       77.5       80.0        2.212       6.29
   3       70.6       78.0         .854       7.15
   4       69.0       76.6         .678       7.82
   5       71.0       75.3         .904       8.73
   6       84.5       77.4        3.513      12.24
MIN. COMP. =  60 DB              MAX. COMP. = 100 DB
ARITHMETIC MEAN =  68 DB
STD. DEVIATION =  10 DB
VARIANCE =100 DB
```

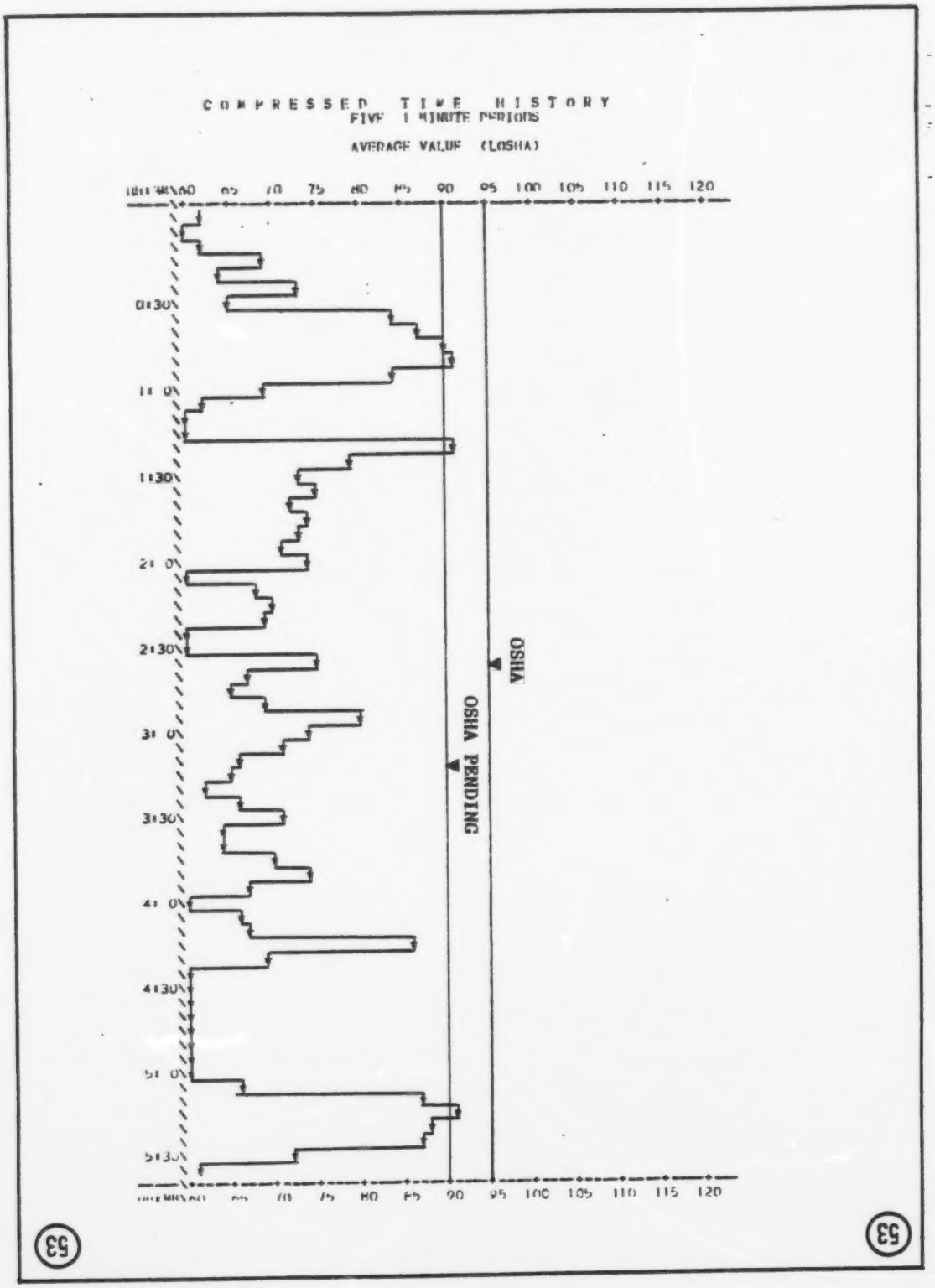
AMPLITUDE DISTRIBUTION

(53) (53)



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
298	62.1	60 To 64
66	13.8	65 To 69
32	6.7	70 To 74
32	6.7	75 To 79
10	2.1	80 To 84
31	6.5	85 To 89
7	1.5	90 To 94
3	.6	95 To 99
1	.2	100 To 104
0	0.0	105 To 109
0	0.0	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480


COMPRESSED TIME HISTORY
FIVE 1 MINUTE PERIODS
AVERAGE VALUE (OSHA)
60 65 70 75 80 85 90 95 100 105 110 115 120
0:30
1:00
1:30
2:00
2:30
3:00
3:30
4:00
4:30
5:00
5:30
OSHA
OSHA PENDING
53
53

54

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

54

```
 1  26  80  1219   60   64    4    1
    106     115200  480
 66  60  61  62  60  60  60  73  70  74  60  60  60  60  65  61
 66  60  62  62  60  68  60  60  60  60  60  61  62  87  98  94
 83  81  81  88  87  93  95 100  [illegible]  83  85  92  96  95  92  96
 93  94  86  69  93  88  93  97  90  73  60  60  60  60  60  60
 60  60  60  60  60  60  65  60  66  64  75  73  60  60  60  61
 63  68  68  70  77  80  68  77  75  78  79  79 115 119 116 115
120 115  73  95 113 119 117 100 118  77  92 119  90 111 110  78
 80  78  84  82  77  74  93 119 119 113 119 119 112 102 116 115
119 114 110 119 116 109 103 117 120 116 108 112 107 106 117 119
118 111 111 120 119 116 119 118 118 117 103 117 118 119  90  97
118 120 117 105 118 115 101  69  76  67  79  76 107 110 115 119
122 115 120 121 110 120 121 109 116 118 118  83  64  62  60  60
 60  68  61  68  60  94 117 116 120 113 119 117 118  71  66  66
 68  72  72  68  64  63  60  71  62  69  68  70  67  63  69  99
100 104 112 108 106 118 116 103 115 116 115 112 117 118 118 114
101 110 114 114 114 113 119 114 114 120 116 115  80  99  73 110
112  61  60  60  63  60  60  60  60  60  60  60  60  62  61  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  70
 65  84 115 116 112 114 100 114 119 114 104  73 111 116 118 112
116 118 113 117 116 118 115 118 118  91  71  62  75  80  86  71
 61  60  64  72  77  64  68 107 107 108 108 107 108 108 102  90
 60  62  60  64  60  60  63  60  60  60  60  62  60  60  60  60
 64  61  68  81  71  68  89  88  66  82  72  60  61  79  91  88
 87  87  87  85  83  80  75  61  68  60  60  60  60  77  65  60
 60  73  60  73  69  74  88  89  84  60  60  61  60  88  91  91
 90  90  90  91  92  92  87  92  88  91  91  90  91  89  92  91
 88  92  86  90  91  92  90  89  89  62  60  60  60  60  60  60
 60  60  60  60  60  64  61  60  60  63  65  65  60  60  62  60
 60  60  60  60  60  60  63  60  63  66  60  70  60  73  60  60
 67  62  60  60  74  88  92  89  89  97  90  92  92  83  75  64
%EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 13/08/79
ENTER SITE CODE (5 CHARS) : 98044
ENTER USER CODE (4 CHARS) : 4637
 ENTER JOB CODE (3 CHARS) : DGM
```

```
   DATA LOGGED :13  AUG 1979          DATA ANALYZED : 20 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : 98044
SERIAL NUMBER : 1219                        JOB CODE : DGM
     BASELINE : 60 DB                       USER CODE : 4637
DYNAMIC RANGE : 64 DB                       THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 0:26
```

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	86.7	86.7	7.936	7.94
2	106.4	101.9	121.427	129.36
3	115.3	109.3	417.078	546.44
4	110.7	109.7	219.842	766.28
5	107.2	109.3	136.413	902.70
6	106.4	108.9	121.304	1024.00
7	85.6	107.3	6.814	1030.81
8	80.8	106.9	3.515	1034.33

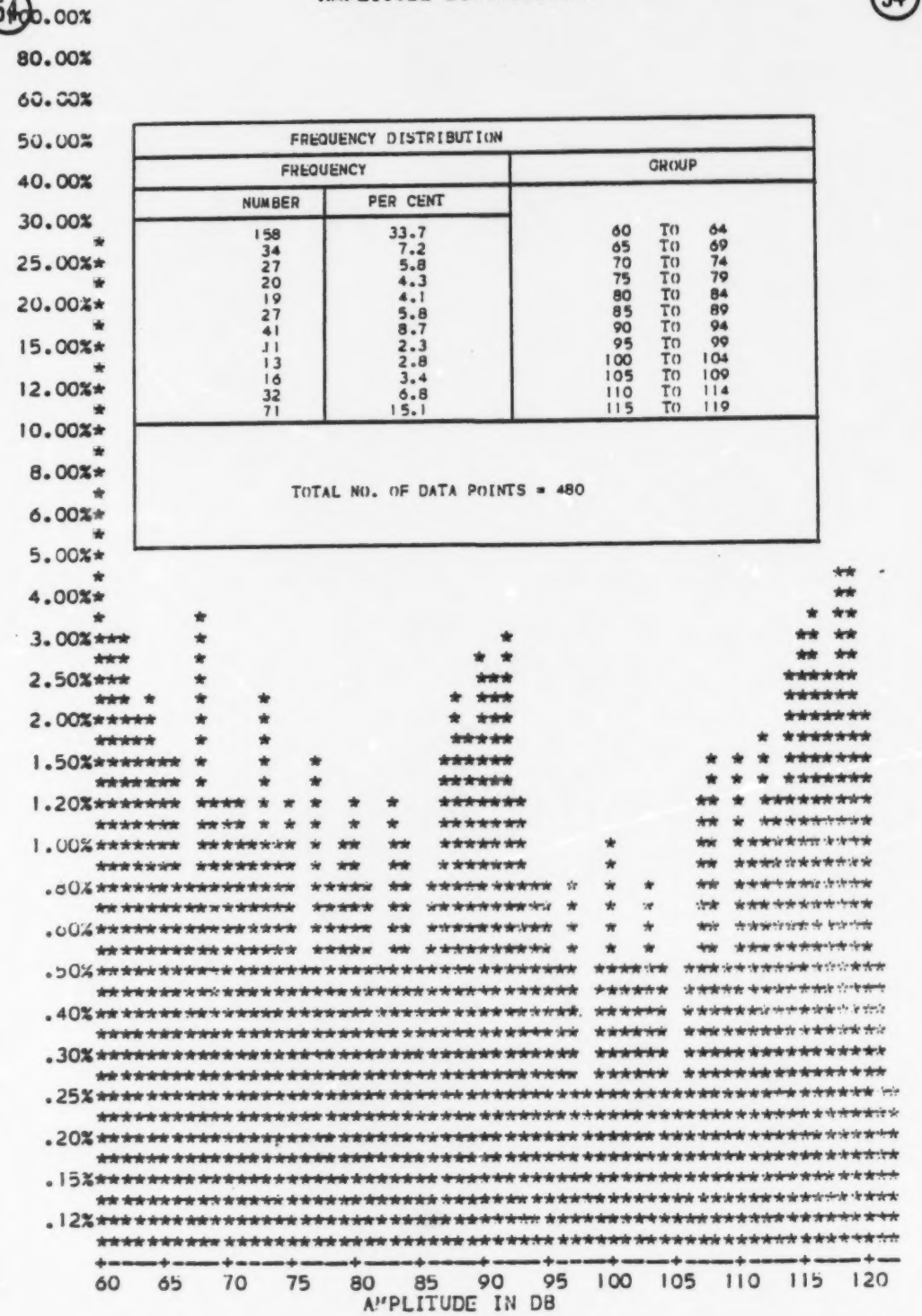
MIN. COMP. = 60 DB MAX. COMP. = 122 DB
ARITHMETIC MEAN = 84 DB
STD. DEVIATION = 22 DB
VARIANCE =484 DB

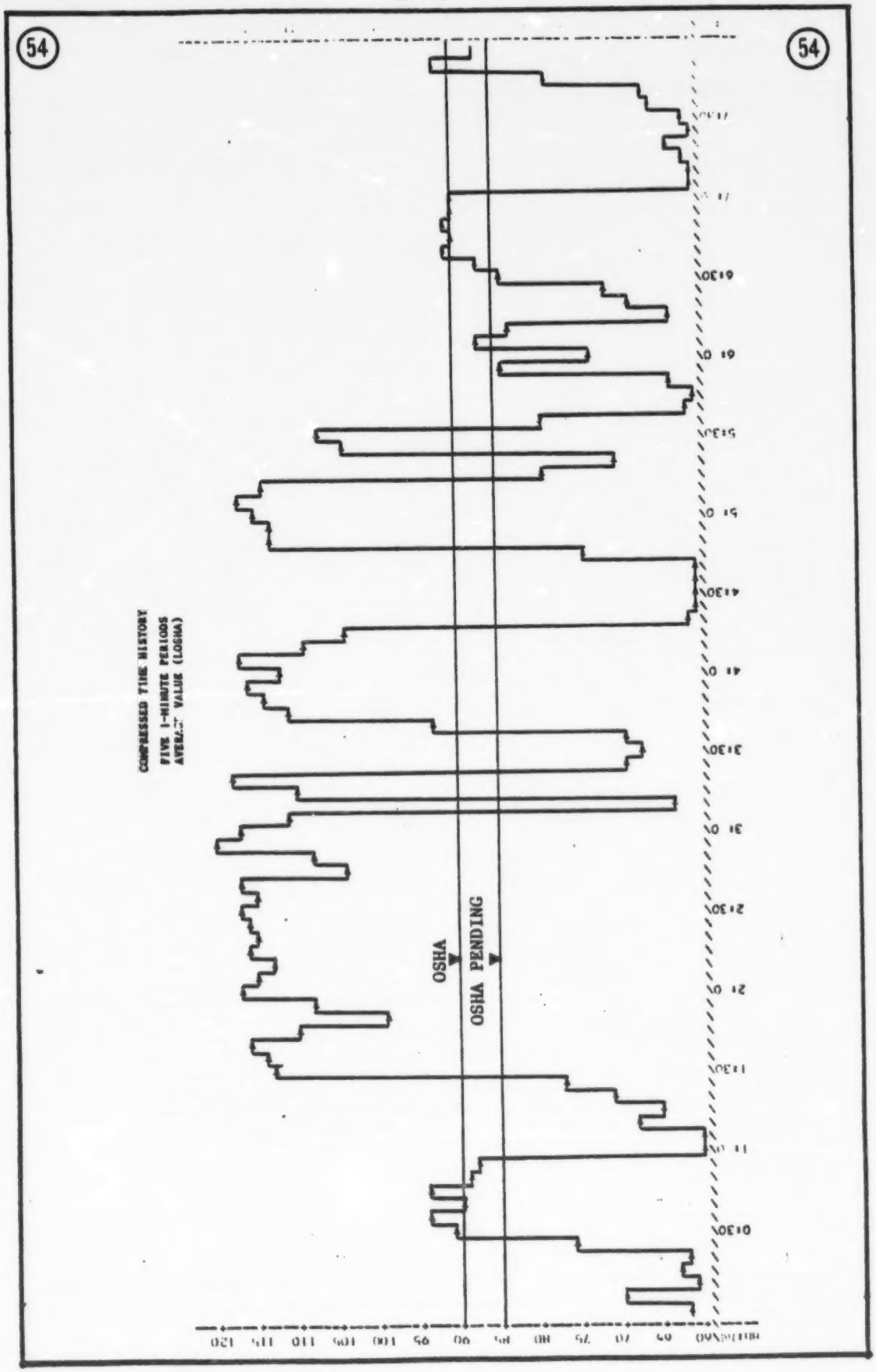
AMPLITUDE DISTRIBUTION

(54) (54)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
158	33.7	60 TO 64
34	7.2	65 TO 69
27	5.8	70 TO 74
20	4.3	75 TO 79
19	4.1	80 TO 84
27	5.8	85 TO 89
41	8.7	90 TO 94
11	2.3	95 TO 99
13	2.8	100 TO 104
16	3.4	105 TO 109
32	6.8	110 TO 114
71	15.1	115 TO 119

TOTAL NO. OF DATA POINTS = 480




54
54
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:30
2:30
3:30
4:30
5:30
6:30
120
115
110
105
100
95
90
85
80
75
70
65
60

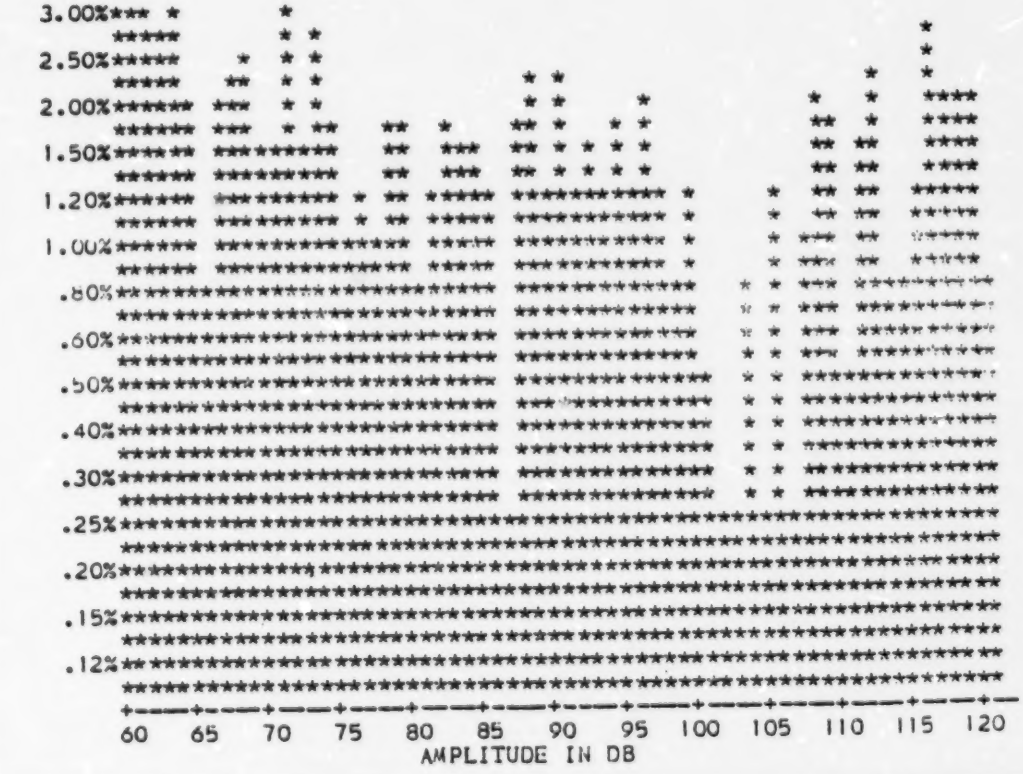
(55) (55)

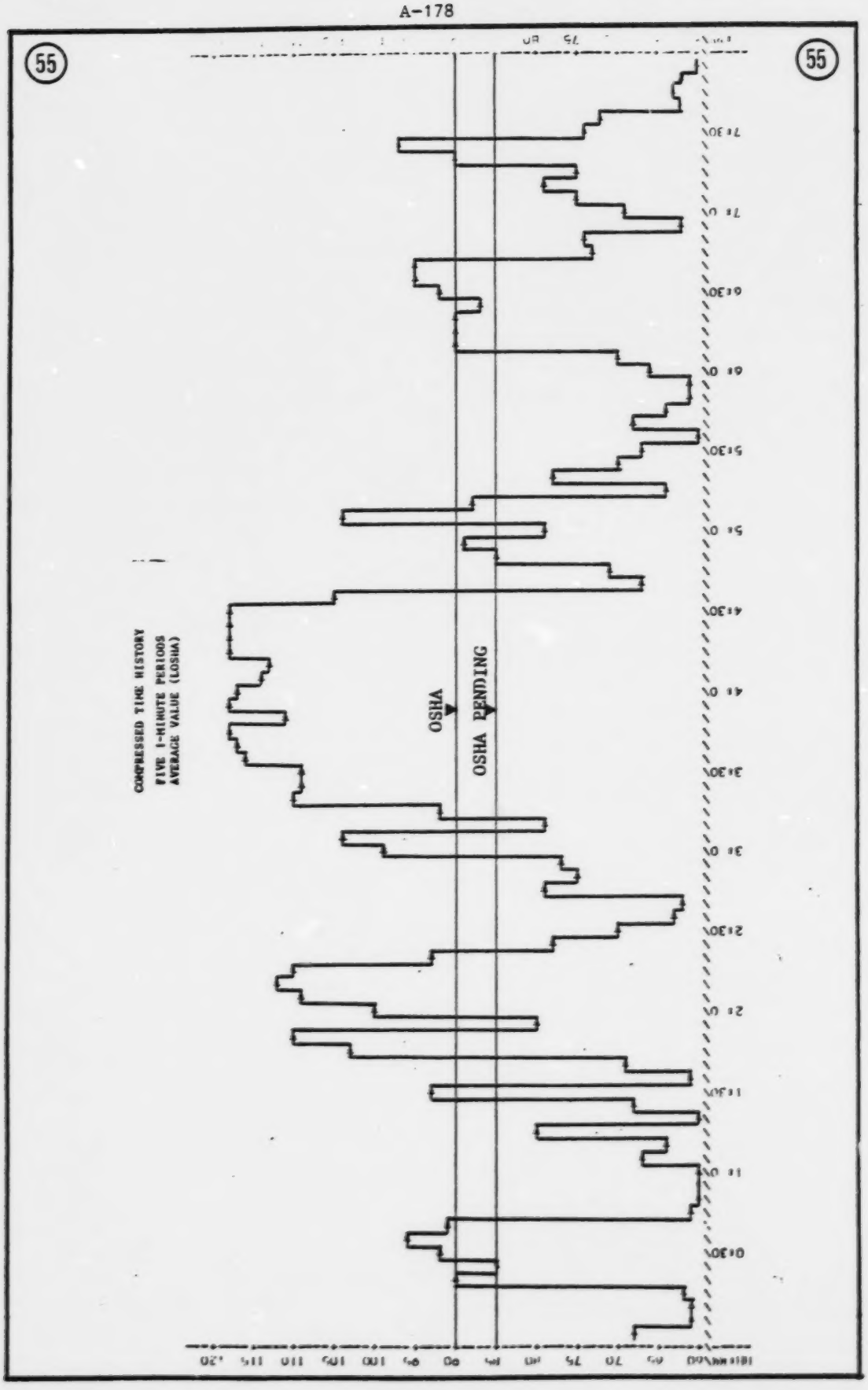
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1216   60   64    4    1
    2720    115200   480
  72  70  62  62  68  61  60  61  63  61  62  60  60  60  61  60
  60  65  62  60  61  62  69  97  95  85  81  82  87  86  94  98
  91  84  84  91  97  97  93  98  96  95  91  64  75  64  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  73  70  61  64  61  68  65  60  63  62  78  67
  60  60  62  60  60  60  73  60  60  72  68 102  91  72  62  64
  60  60  60  60  61  67  68  65  76  95  97  71 110 105 112 109
 113 110 106  63  74  85  84  80 109  85  84  93  97 113 100 106
 107 113 111 112 113 113 112 110 109 109 114 101 100  95  88  83
  81  80  82  79  76  71  72  74  60  69  67  60  61  60  62  69
  65  60  64  61  60  74  68  86  72  82  76  76  72  69  79  79
  84  78  60  60  60 104 106  81  84  98  99 108 108 101  88  67
  73  75  72  77  60  60  85 103 100 113 112 112 106  96 113 109
 110 109  77 108 113 109 110  96 115 120 117 116 117 116 117 119
 118 119 117 120 120 112  89  88  89 114 119 110 121 120 117 120
 121 104 113 118 119 117 110 106 115 117 120 116 100  95 108 118
 117 118 119 120 120 119 114 121 116 118 118 116 118 119 117 118
 117 117 119 115 100  85  92  61  60  73  71  60  60  72  60  71
  78  61  60  60  86  90  89  89  90  89  88  88  89  66  74  60
  63  77 109 111  94  96  97  89  67  68  60  69  60  66  60  60
  86  75  64  69  75  79  70  60  60  60  68  60  64  70  69  60
  60  60  60  60  60  60  68  75  66  60  68  60  61  65  63  60
  61  60  62  63  61  60  60  60  69  69  64  63  60  60  60  60
  77  72  73  93  94  83  92  92  91  89  91  88  90  94  86  85
  91  61  91  60  79  95  93  90  90  92  94  92  95  93  97  96
  91 104  63  93  77  61  60  60  65  83  83  62  63  73  65  64
  62  60  61  60  65  64  64  72  74  72  64  67  74  83  82  83
  79  72  71  68  78  80  70  74  79  80  80  89  99  97  98  99
  98  80  75  74  75  71  74  74  74  72  70  69  63  60  62  63
  60  63  67  60  60  60  60  60  60  62  67  60  60  60  60  61
 *EOF


ENTER LOG DATE (DD/MM/YR) : 13/08/79
ENTER SITE CODE (5 CHARS) : 29003
ENTER USER CODE (4 CHARS) : 4636
 ENTER JOB CODE (3 CHARS) : DGM


   DATA LOGGED :13  AUG 1979          DATA ANALYZED : 20 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 29003
 SERIAL NUMBER : 1216                       JOB CODE : DGM
      BASELINE : 60 DB                      USER CODE : 4636
 DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 DB
 SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
 TEST DURATION =   8: 0: 0               STANDBY TIME =   0:11:20

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                      NOISE
HOUR    CURRENT  CUMULATIVE        CURRENT  CUMULATIVE
   1      85.3      85.3            6.501      6.50
   2      95.2      91.9           25.852     32.35
   3     101.3      96.5           60.065     92.42
   4     112.0     104.2          265.047    357.46
   5     113.2     107.1          312.563    670.03
   6      87.7     105.9            9.038    679.07
   7      88.1     104.9            9.667    688.73
   8      82.5     104.0            4.482    693.22
MIN. COMP. =  60 DB                MAX. COMP. = 121 DB
ARITHMETIC MEAN =  81 DB
STD. DEVIATION =  20 DB
VARIANCE =400 DB
```

AMPLITUDE DISTRIBUTION

(55) (55)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
155	33.0	60 TO 64
38	8.1	65 TO 69
42	9.0	70 TO 74
27	5.8	75 TO 79
28	6.0	80 TO 84
28	6.0	85 TO 89
30	6.4	90 TO 94
28	6.0	95 TO 99
12	2.6	100 TO 104
19	4.1	105 TO 109
27	5.8	110 TO 114
35	7.5	115 TO 119
TOTAL NO. OF DATA POINTS = 480		




55
55
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(56)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1226    60    64     4     1
     22     115200  480
 60  61  64  60  60  60  60  63  67  69  64  60  60  60  62  63
 60  76  61  65  66  60  60  59  60  60  60  60  60  60  62  65
 66  61  60  60  70  71  74  71  68  73  89  91  90  90  93  92
 92  93  98  99  98  98  98  99 101  99  98  94  96  93  90  95
 94  92  91  92  91  94  91  90  92  98  92  70  66  63  60  60
 60  62  64  60  61  64  64  60  60  60  60  60  60  60  60  60
 60  60  61  60  60  60  60  65  72  63  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 62  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  62  80  83  83  82  86  68  60  60  60  60  65  86  75  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  82  60  83  60  60  60  74  74  77  70
 62  61  68  69  65  66  60  71  73  82  80  64  82  83  82  81
 81  84  92  83  90  99  86  84  81  80  81  81  81  78  70  77
 79  62  78  79  78  67  60  74  77  77  68  65  73  79  75  76
 66  62  67  67  60  69  61  86  91  68  60  60  60  70  68  60
 62  61  61  62  60  67  60  64  63  68  61  60  60  60  69  65
 60  60  60  60  71  78  85  84  76  63  60  60  62  60  60  60
 65  61  61  69  68  62  60  60  60  60  60  62  60  64  60  62
 63  68  67  66  60  60  66  60  60  60  60  65  65  63  65  60
 69  60  61  67  60  68  68  64  94  95  96  90  82  63  60  61
 72  76  63  60  60  60  60  62  60  60  60  60  60  60  78  81
 78  72  60  76  80  89  86  88  61  66  84  78  63  60  70  83
 84  76  80  82  60  60  61  61  90  62  60  60  70  78  82  82
 88  84  83  87  92  94  94  92  81  82  64  60  60  62  60  60
 63  60  71  65  63  65  62  84  80  88  60  65  61  63  70  70
 71  74  68  60  63  63  62  69  65  73  62  60  60  60  63  68
 73  69  66  71  69  71  66  67  61  71  72  63  60  77  70  72
 75  87  95  92  83  89  91  89  87  81  75  64  70  64  65  69
 76  68  73  77  71  85  92  91  91  93  91  87  87  95  96  93
$EOF


ENTER LOG DATE (DD/MM/YR) : 27/07/79
ENTER SITE CODE (5 CHARS) : 20960
ENTER USER CODE (4 CHARS) : 2525
 ENTER JOB CODE (3 CHARS) : 270


   DATA LOGGED :27 JULY 1979          DATA ANALYZED : 20 SEPT 1979
      LOGGER : DB-301/26                 SITE CODE : 20960
SERIAL NUMBER : 1226                      JOB CODE : 270
     BASELINE : 60 DB                    USER CODE : 2525
DYNAMIC RANGE : 64 DB                    THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0: 5


          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                    DOSE
HOUR     CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1       87.6       87.6        8.952       8.95
   2       82.7       85.6        4.545      13.50
   3       69.5       83.0         .729      14.23
   4       80.1       82.4        3.185      17.41
   5       71.1       81.1         .913      18.32
   6       78.4       80.8        2.494      20.82
   7       80.3       80.7        3.239      24.06
   8       83.5       81.1        5.094      29.15
MIN. COMP. =  60 DB              MAX. COMP. = 101 DB
ARITHMETIC MEAN =  69 DB
STD. DEVIATION =  12 DB
VARIANCE =144 DB
```

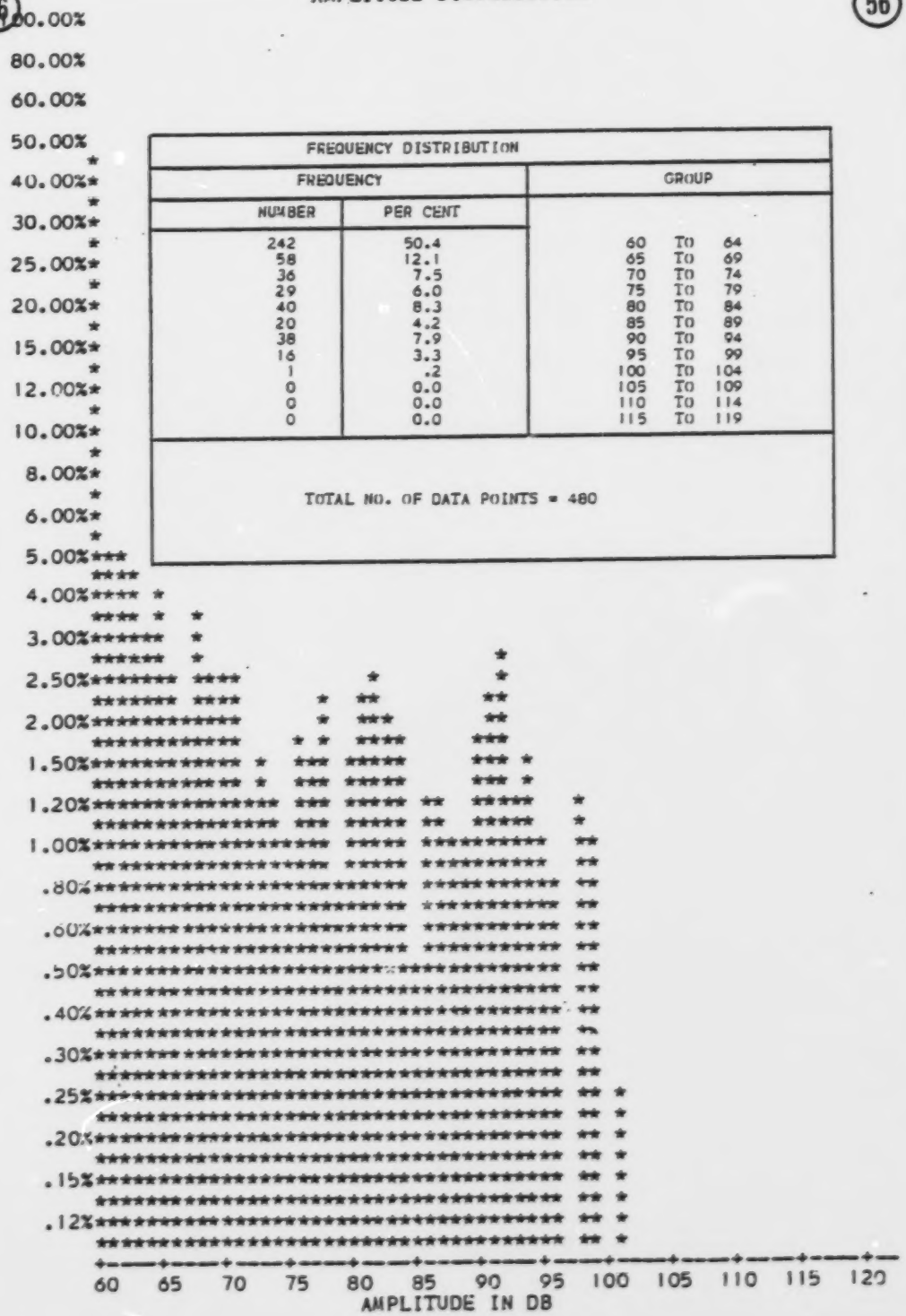
(56)

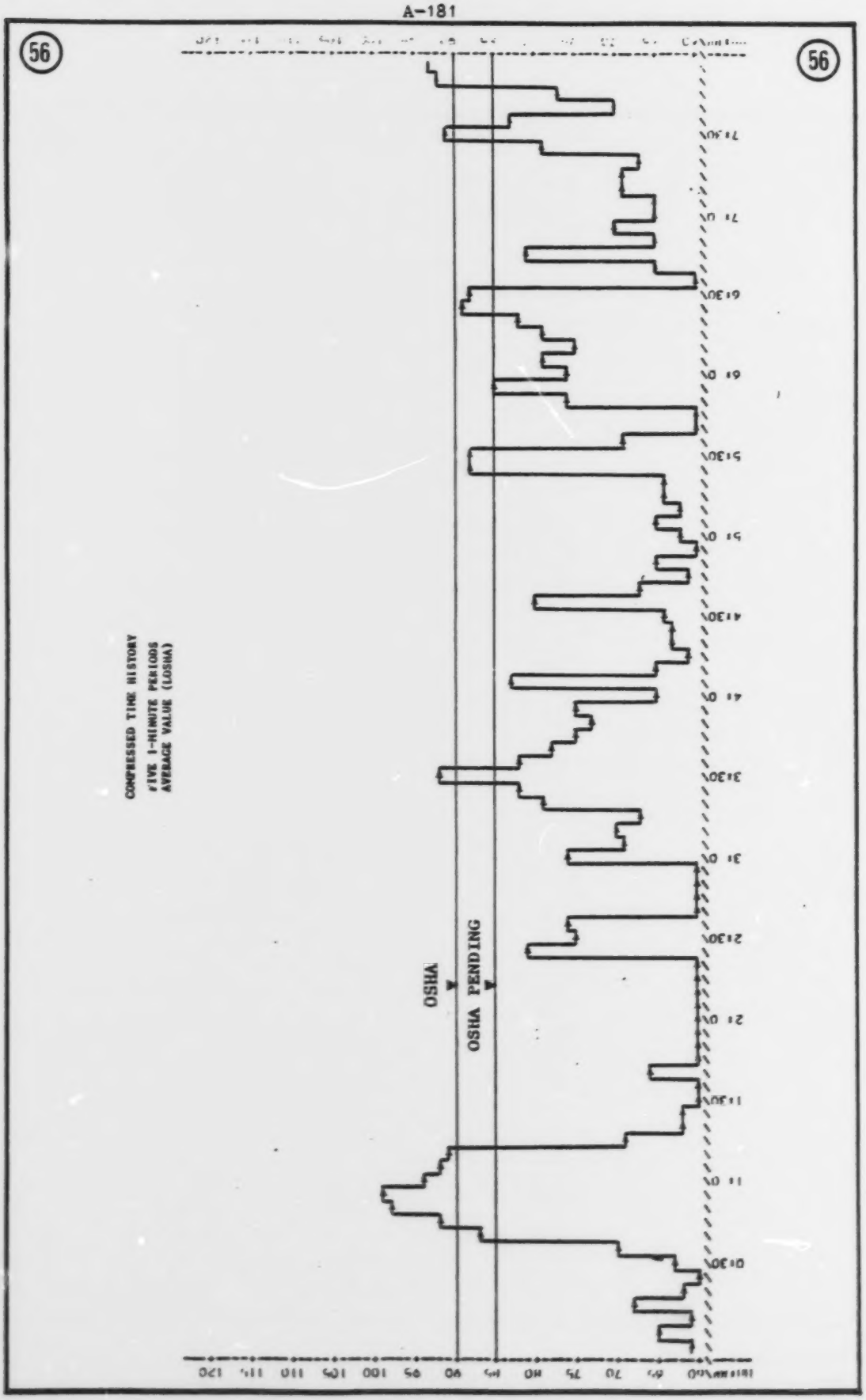
AMPLITUDE DISTRIBUTION

(56) (56)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
242	50.4	60 To 64
58	12.1	65 To 69
36	7.5	70 To 74
29	6.0	75 To 79
40	8.3	80 To 84
20	4.2	85 To 89
38	7.9	90 To 94
16	3.3	95 To 99
1	.2	100 To 104
0	0.0	105 To 109
0	0.0	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




56
56
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
7:0
7:30
120
115
110
105
100
95
90
85
80
75
70
65
60

57

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

```
  1  26  80  1226   60   64    4    1
     71     115200  480
  65  60  68  63  60  60  7[illegible]  66  60  60  61  67  70  65  82  82
  62  90  83  81  80  71  82  79  79  88  84  93  92  93  93  94
  92  97  82  78  69  60  60  60  64  60  60  60  60  60  61  60
  60  70  60  60  60  60  60  60  60  60  60  60  60  60  63  61
  71  62  64  65  67  71  72  67  72  61  63  71  62  80  82  81
  94  94  83  60  60  62  83  60  60  60  60  60  63  60  60  60
  60  61  70  64  60  89 104 107 102 102 105  96 102  61  92 107
 105  99  98  87  94  81  60  60  77  79  60  60  60  64  61  61
  61  60  60  60  70  83  82  82 106 107 109  96 105  65  82  60
 102  60  69  63  67  60  63  61  63  60  62  61  60  62  62  71
  60  63  73  60  68 105 103 105 104  60 100 102  82  61  63  63
  61  91  83 101 103 102 102 106 101 102  85  60  60  60  68  62
  60  60  60  60  63  76 105  77 108 105 105  62 102 106 105  98
  83  91  70  76  62  60 102 107 106 106 107 104 107  92  60  60
  62  60 103 107 106 106 103 108  98  91 101  64  61  60  60 103
 108 107 105 109  88  60  60  61  68  66  66  60  62  73 100  88
  60  60  60  60  60  60  60  63  67  73  70  66  63  71  70  66
  62  66  61  64  68  67  61  65  67  64  63  60  65  67  71  71
  65  66  63  69  71  70  70  72  70  60  60  60  60  62  63  95
 105 111 110 108 108 106 111  86  93  76  95  94 112 110 111 111
 111 109 111  99  80  60  62  68  70  60  61  67  70  68  76  61
  75  80  97  92  76  73  69  75  65  72  64  71  74  61  70  72
  67  63  69  61  75  70 111 112 102 108 110 105  75  85  81  98
 107 110  78 112 103 100 111  63  89  86  60  60  62  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  68  61  60  60  60  60
  60  60  60  60  60  65  62  64  63  75  70  73  67  60  60  60
  60  60  60  61  60  60  60  60  63  60  60  60  60  62  60  65
  60  63  72  63  64  61  60  60  60  60  60  60  81  60  60  60
  61  60  67  74  62  63  62  60  82  63  60  62  63  62  82  94
%EOF
```

ENTER LOG DATE (DD/MM/YR) : 30/07/79
ENTER SITE CODE (5 CHARS) : 29003

ENTER USER CODE (4 CHARS) : 4770

ENTER JOB CODE (3 CHARS) : 272

```
   DATA LOGGED :30 JULY 1979          DATA ANALYZED : 20 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 29003
SERIAL NUMBER : 1226                        JOB CODE : 272
      BASELINE : 60 DB                     USER CODE : 4770
DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0               STANDBY TIME =   0: 0:17
```

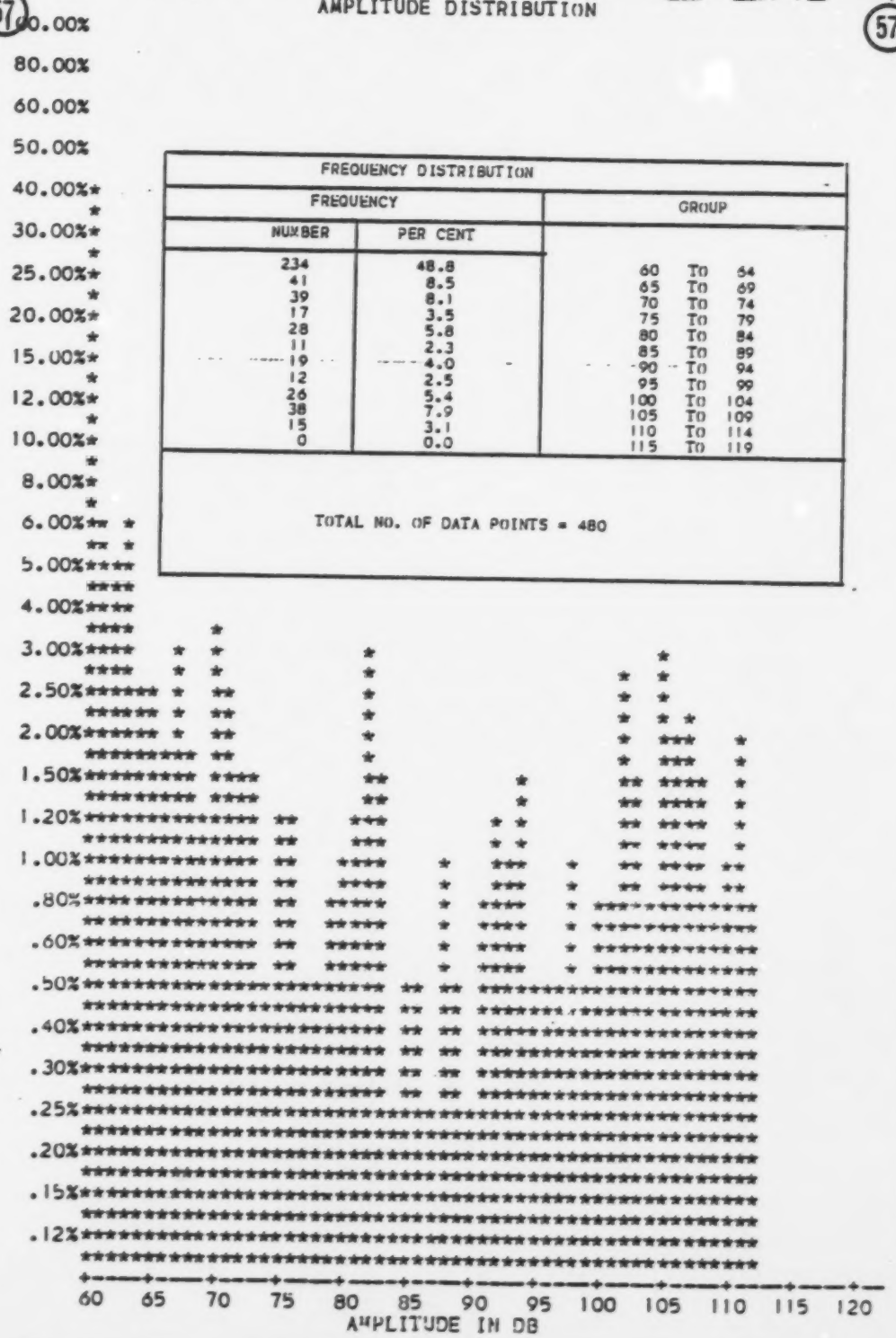
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	81.3	81.3	3.742	3.74
2	92.1	88.5	16.619	20.36
3	93.5	90.6	20.302	40.66
4	99.8	94.2	48.309	88.97
5	89.0	93.4	10.851	99.82
6	101.0	95.3	57.514	157.34
7	95.2	95.3	25.794	183.13
8	70.7	94.4	.866	184.00

MIN. COMP. = 60 DB MAX. COMP. = 112 DB
ARITHMETIC MEAN = 74 DB
STD. DEVIATION = 17 DB
VARIANCE =289 DB

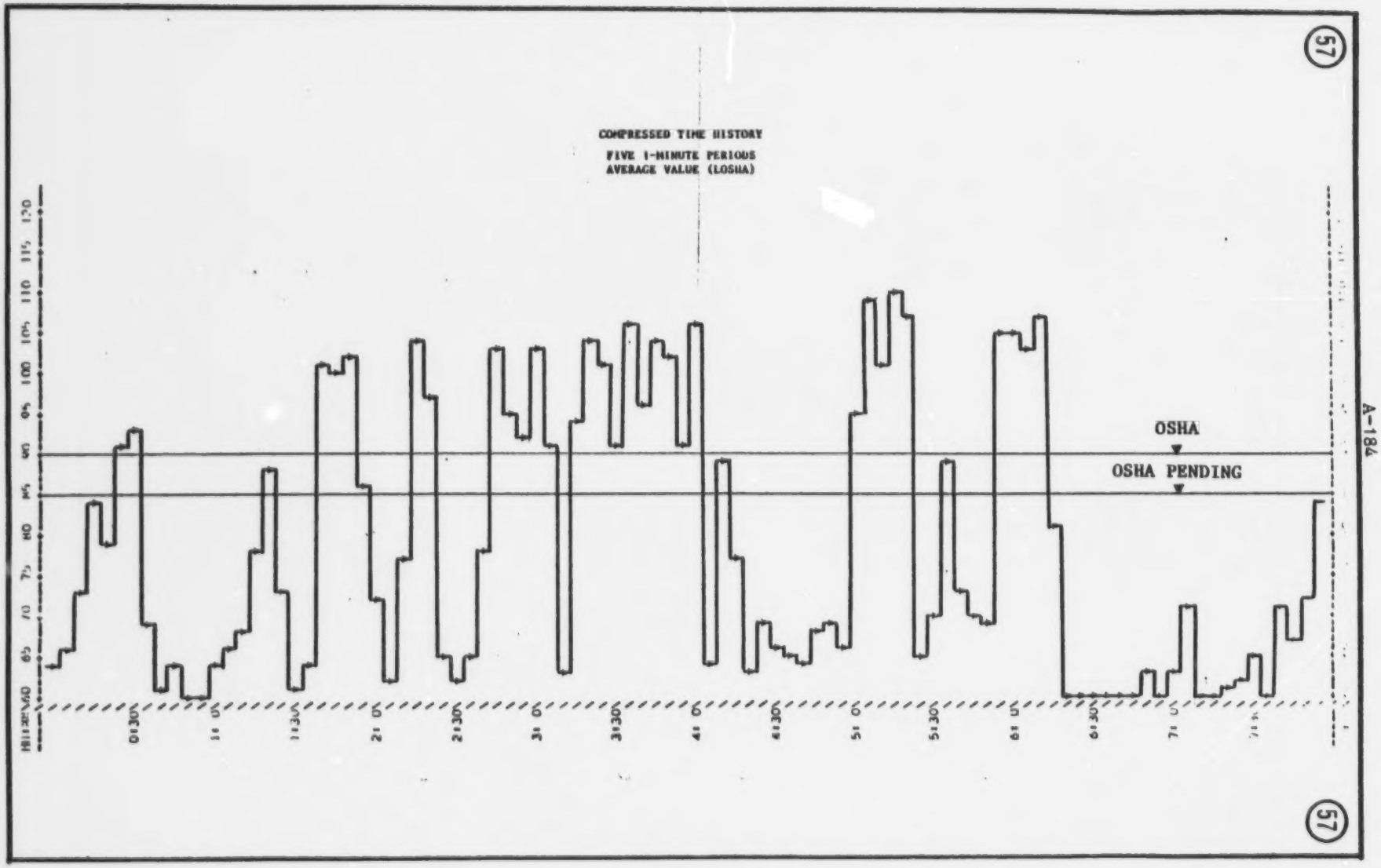
(57) AMPLITUDE DISTRIBUTION (57)



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
234	48.8	60 To 64
41	8.5	65 To 69
39	8.1	70 To 74
17	3.5	75 To 79
28	5.8	80 To 84
11	2.3	85 To 89
19	4.0	90 To 94
12	2.5	95 To 99
26	5.4	100 To 104
38	7.9	105 To 109
15	3.1	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480


57
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
57

58

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1213    60    64     4     1
     381     115200   480
  64  61  61  79  66  67  66  71  60  71  78  71  72  69  61  68
  78  60  74  82  82  90  88  85  85  79  82  83  77  89  86  91
  93  94  91  96  92  98  89  77  76  60  60  77  71  65  60  70
  65  72  71  60  60  64  60  70  63  76  60  60  60  60  60  60
  60  75  73  60  85  72  60  65  72  75  83  60  60  60  60  60
  60  60  73  66  60  60  60  60  61  60  60  60  60  60  60  60
  67  68  69  60  77  70  61  70  70  83  96 101  95  98 102  93
  98  78  78  90  88  87  84  87  89  74  65  61  88  90  60  60
  60  60  60  60  60  60  60  60  60  65  61  70 103 110 112 104
 110  82  93  81 107  76  66  62  66  62  71  68  64  63  66  67
  62  65  66  73  65  68  75  61  93 111 110 111 109  74 106 107
  89  71  70  62  60  95  86 106 109 107 108 109 107 107  87  61
  60  60  61  73  79  67  60  60  60  64  83  61 102 102 100  60
 100 104 103  93  79  90  80  84  60  60  99 103 101  99 100 104
 104  87  61  67  60  60 100 109 107 107 102 111  99  94  99  66
  69  61  78 111 110 108 106 109  76  72  66  64  70  66  70  73
  74  76  99  87  68  74  75  71  75  74  66  75  64  68  65  60
  60  74  72  64  63  63  60  69  71  73  65  66  62  64  60  60
  75  84  60  67  81  71  65  79  82  83  80  81  87  84  60  60
  60  60  60  60  60  60  60  60  60  81  91  92  86  67  60  61
  73  96  99  98 101  97  94  84  74  60  70  69  68  60  61  64
  60  60  63  66  87  84  95  94  78  80  78  68  78  82  60  75
  81  83  78  77  82  83  85  74  79  97 111 105 110 106  80  83
  83 100 106  84 114 100 112 104  84  95  71  60  60  62  65  60
  60  60  60  62  60  60  62  60  60  60  60  68  60  60  60  60
  71  68  67  60  66  60  60  61  61  60  60  60  60  60  60  60
  60  62  60  60  60  67  76  71  79  78  62  61  62  62  60  61
  62  60  60  60  68  64  71  73  77  77  74  76  74  66  63  72
  69  86  61  64  62  82  71  74  78  75  70  71  78  78  62  60
  60  61  71  78  61  60  60  64  85  60  69  60  60  60  87  94
%EOF
```

58

```
ENTER LOG DATE (DD/MM/YR) : 30/07/79

ENTER SITE CODE (5 CHARS) : 29003

ENTER USER CODE (4 CHARS) : 4836
 ENTER JOB CODE (3 CHARS) : 272
```

```
   DATA LOGGED :30 JULY 1979
        LOGGER : DB-301/26
 SERIAL NUMBER : 1213
      BASELINE : 60 DB
 DYNAMIC RANGE : 64 DB
 SAMPLING RATE :  4/SEC
 TEST DURATION =   8: 0: 0

 DATA ANALYZED : 20 SEPT 1979
     SITE CODE : 29003
     JOB CODE : 272
    USER CODE : 4636
    THRESHOLD :  80 DB
TOTAL SAMPLES =  115200
 STANDBY TIME =   0: 1:35
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

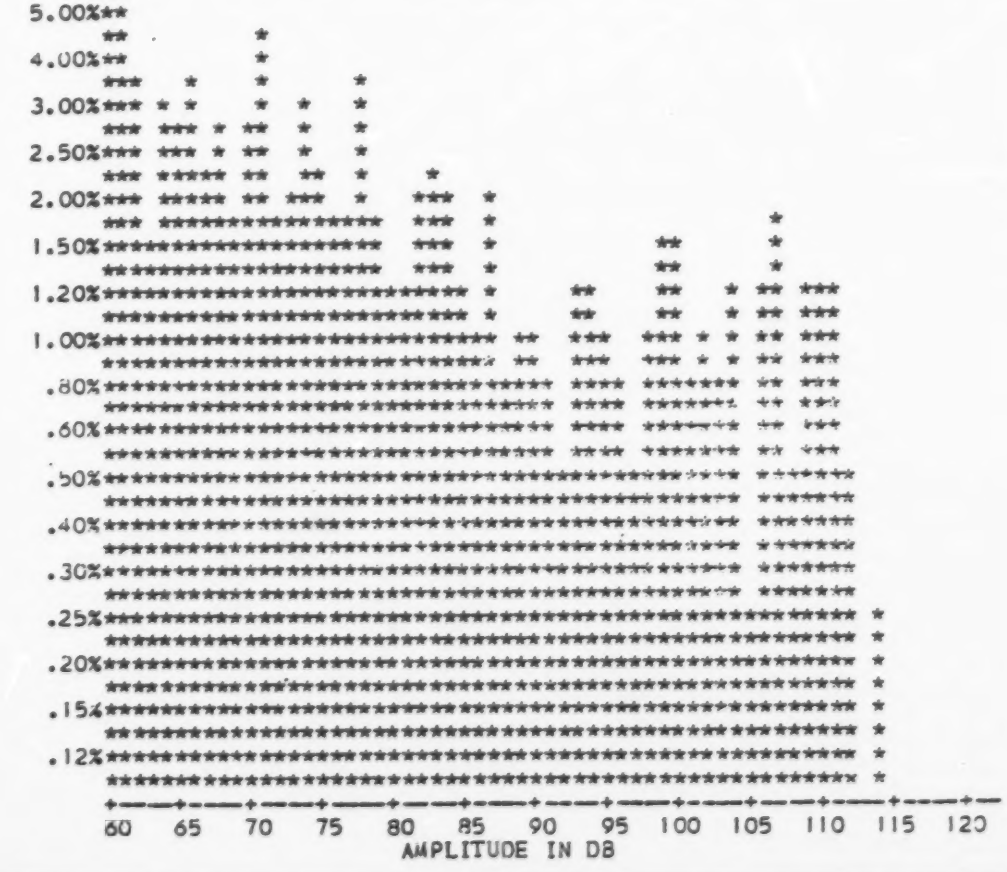
TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	82.6	82.6	4.492	4.49
2	84.6	83.7	5.939	10.43
3	97.6	91.5	35.810	46.24
4	99.6	94.5	47.453	93.69
5	92.0	94.1	16.423	110.12
6	85.5	93.2	6.703	116.82
7	95.7	93.6	27.572	144.39
8	74.9	92.7	1.540	145.93

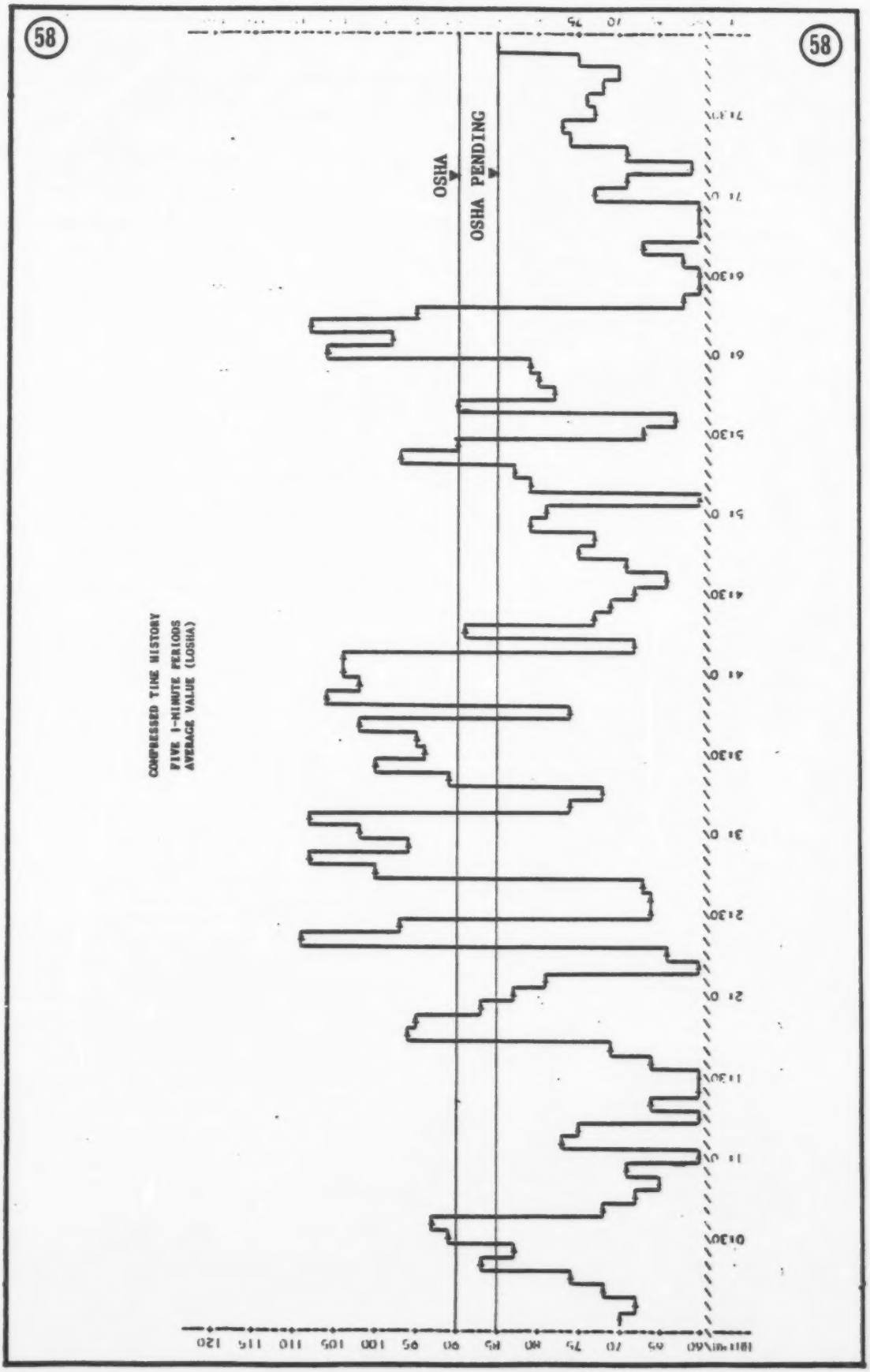
```
MIN. COMP. =  60 DB                MAX. COMP. = 114 DB
ARITHMETIC MEAN =  74 DB
STD. DEVIATION =  15 DB
VARIANCE =225 DB
```

58 AMPLITUDE DISTRIBUTION 58

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
177	36.9	60 TO 64
53	11.0	65 TO 69
55	11.5	70 TO 74
44	9.2	75 TO 79
35	7.3	80 TO 84
24	5.0	85 TO 89
19	4.0	90 TO 94
19	4.0	95 TO 99
21	4.4	100 TO 104
20	4.2	105 TO 109
13	2.7	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




58
58
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
120
115
110
105
100
95
90
85
80
75
70
65
60

59 59

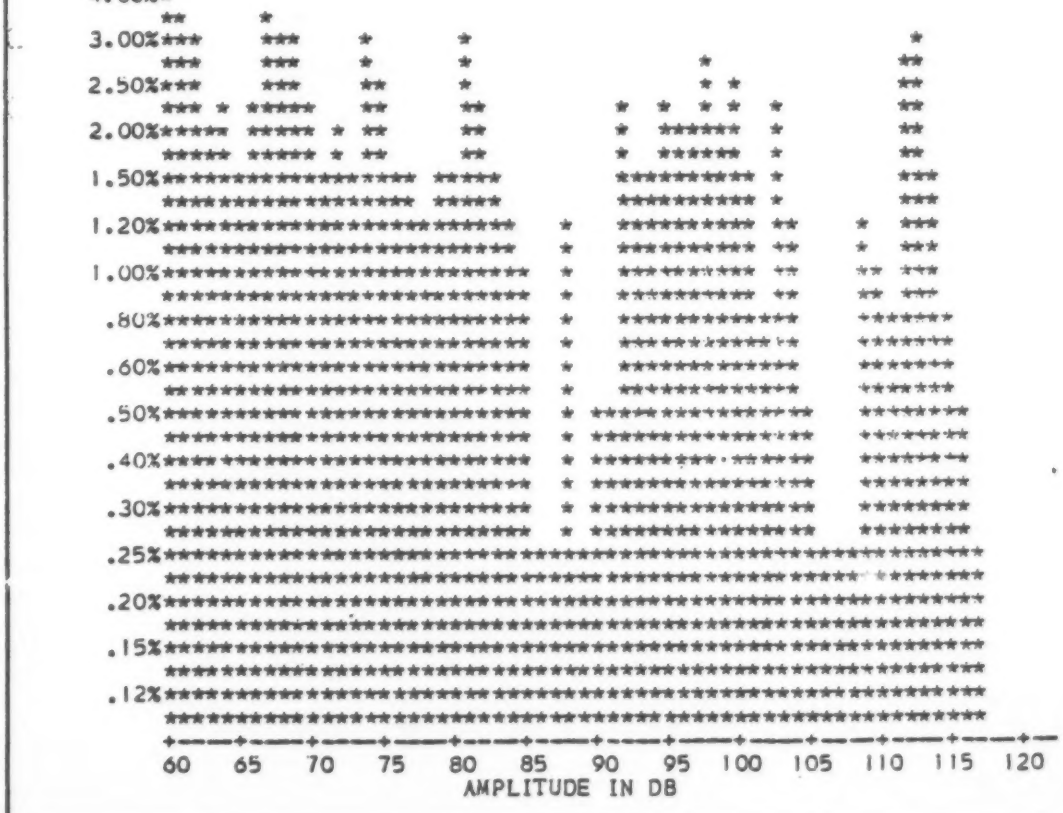
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1215   60   64    4    1
     98     115200  480
  60  60  60  60  67  62  63  60  60  60  60  64  60  60  60  60
  67  60  60  60  60  61  60  60  60  60  60  60  60  60  67  67
  69  74  67  66  61  60  62  62  76  77  75  86  97  93  88  83
  91  89  82  82  83  84  81  82  81  81  82  82  82  81  82  81
  82  84  83  81  80  87  75  74  81  78  79  81  95 100 103  82
  81  85  95 101  93 105  98  81  70  67  71  79  81  93  68  70
  68  62  77  71  63  70  68  66  66  65  75  65  73  71  69  69
  75  75  63  68  60  60  64  97  93 101 104 103  92 104  96 104
 104 105 100  99 109 103  62  64  64  68  61  69  63  60  60  60
  75  66  68  96  60  63  75  80  69  73  74  93 103 103 102  98
  99  92  98  62  60  69  75  74  74  73  80  74  78  80  70  69
  69  70  64  69  62  60  60  68  60  70  62  84  81  72  78  88
  83  84  85  85  90  84  70  64  88  61  80 114 113 110  88 109
 113 103  95  77 111 112 113 115 112 112 114 112  99  96  96  90
  92  94 102 113 109 111 113 110 106  95  97  95  96 104 112 113
 115 116 113 112  93  95  95  94  93  92  60  60  60  72  73  70
  73  60  60  60  60  60  60  61  60  60  60  60  60  68  60  60
  60  60  60  60  60  60  60  60  60  60  60  64  71  60  63  68
  61  60  60  76  60  60  60  60  60  60  69  72  64  60  60  60
  71  61  60  60  69  66  60  60  61  60  60  62  60  65  65  60
  60  62  71  79  67  67  76  66  66  74  64  75  68  69  73  69
  60  60  60  63  72  61  60  60  60  60  60  63  61  78  62  61
  76  70  61  66  61  60  62  61  72  79  78  74  67  68  74  74
  65  62  60  60  60  67  76  79  67  67  96  98  97 100 100 103
 112 110 112 113 110  92 101  98 100 101  98  99 100  91  97  98
  92  98  99  95  96 100  95  98 100  94  98  97 100  79  76  94
  97  97  92  96  98  99  92 103 112 114 114 112 113  94  94 114
 117 115 113  99 113 108 103 109 101 100 112 116 113 114 111 101
 109  99 102  88  85  75  72 107  74  92  77  83  72  77  68  65
  74  61  60  74  66  68  80  60  60  60  60  60  67  67  72  77
%EOF


ENTER LOG DATE (DD/MM/YR) : 20/08/79
ENTER SITE CODE (5 CHARS) : 29003
ENTER USER CODE (4 CHARS) : 4549
 ENTER JOB CODE (3 CHARS) : 272


   DATA LOGGED :20  AUG 1979          DATA ANALYZED : 25 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 29003
SERIAL NUMBER : 1215                        JOB CODE : 272
      BASELINE : 60 DB                      USER CODE : 4549
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0:24


          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                      %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      78.7      78.7          2.623      2.62
   2      87.5      84.4          8.867     11.49
   3      94.6      89.6         23.748     35.24
   4     105.2      97.3        102.752    137.99
   5      95.3      97.0         26.176    164.16
   6      67.0      95.7           .514    164.68
   7      98.8      96.2         42.591    207.27
   8     105.4      98.2        105.271    312.54
MIN. COMP. =  60 DB              MAX. COMP. = 117 DB
ARITHMETIC MEAN =  79 DB
STD. DEVIATION =  18 DB
VARIANCE =324 DB
```

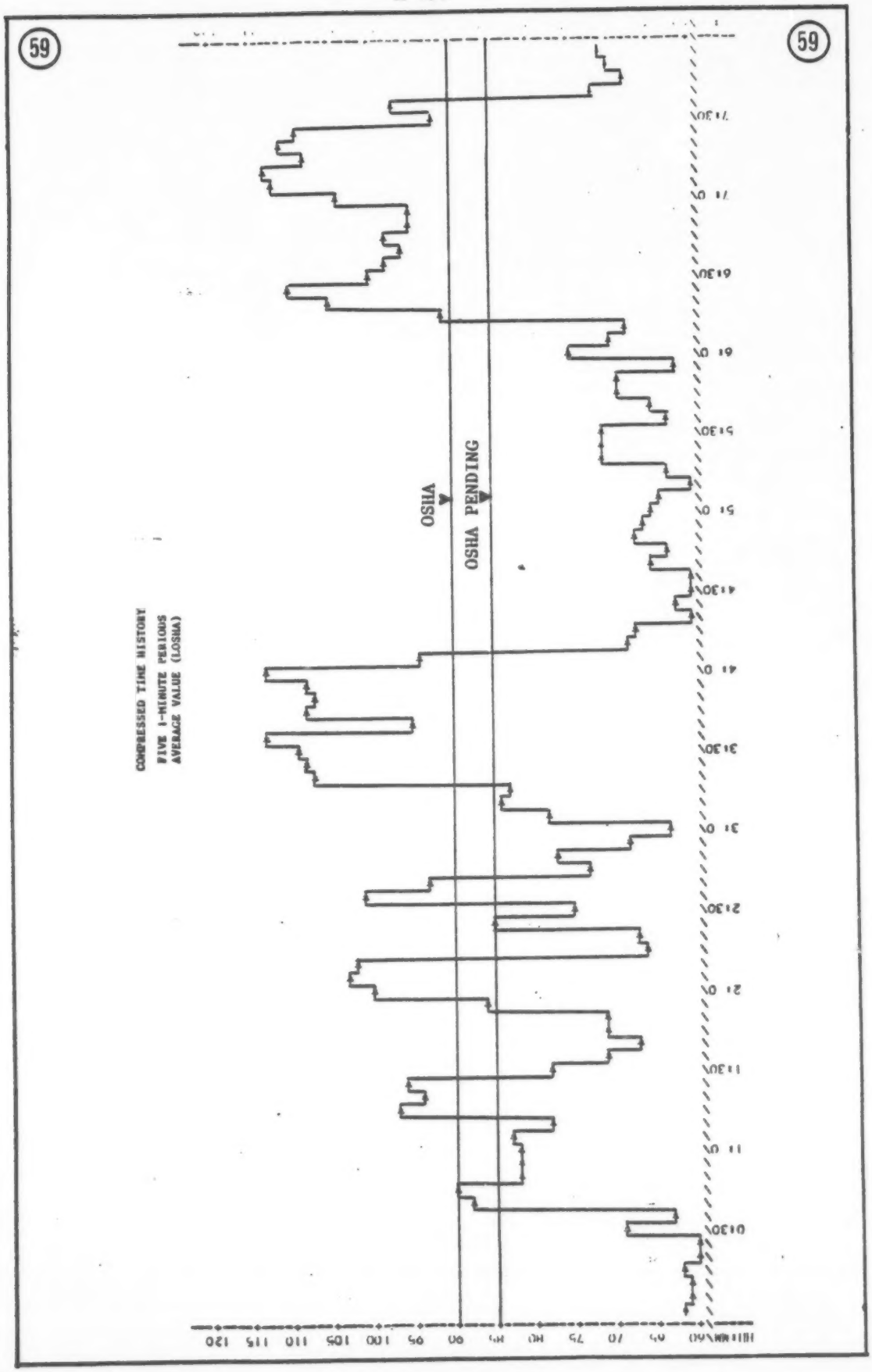
AMPLITUDE DISTRIBUTION

(591) (59)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
146	30.4	60 TO 64
55	11.5	65 TO 69
42	8.8	70 TO 74
33	6.9	75 TO 79
38	7.9	80 TO 84
12	2.5	85 TO 89
25	5.2	90 TO 94
44	9.2	95 TO 99
33	6.9	100 TO 104
10	2.1	105 TO 109
36	7.5	110 TO 114
6	1.3	115 TO 119

TOTAL NO. OF DATA POINTS = 480




59
59
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1: 0
1:30
2: 0
2:30
3: 0
3:30
4: 0
4:30
5: 0
5:30
6: 0
6:30
7: 0
7:30
DECIBELS
65
70
75
80
85
90
95
100
105
110
115
120

60

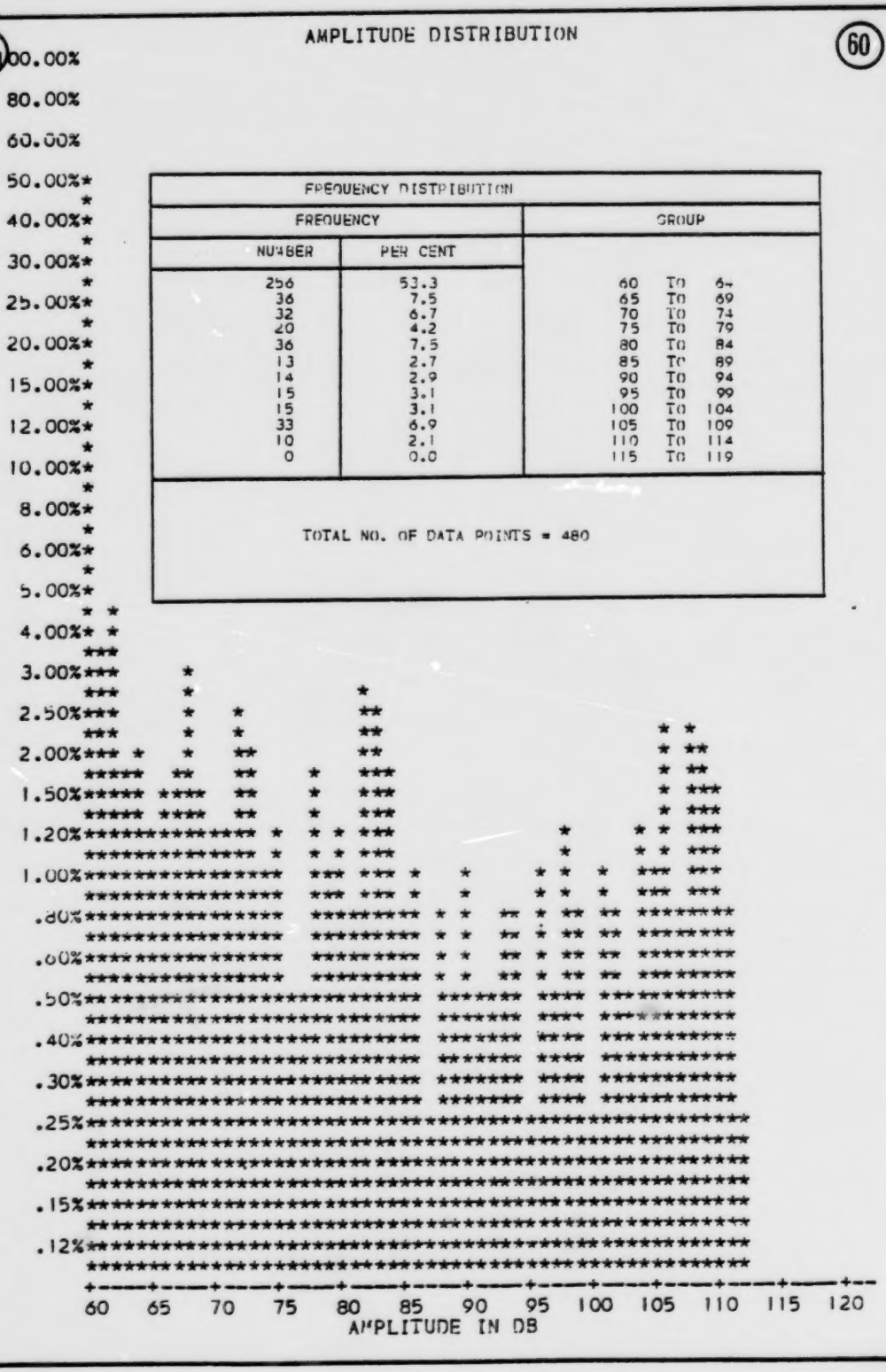
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1217   60   64    4    1
     521     115200  480
  60  60  60  60  60  60  62  60  60  60  60  60  60  60  60  60
  60  60  72  63  66  65  65  66  78  83  84  89  92  93  90  93
  98  98  99  91  96  94  96  94  96  99  93  92  88  91  94  88
  73  62  60  60  60  60  60  60  80  72  60  60  69  63  74  79
  68  73  68  79  78  97  95  67  60  64  60  61  67  61  60  62
  60  64  67  60  60  99 110 106  68  72  73  64  68  70  62  62
  71 100 109 106 108 109  98  96  74  60  61 104  98 106 107 108
 110 102 110  97 111 108 107 108 109  72  90  71  67 109 106  90
  83  82 110 108 112 108 110 111 109 110 109 111 105 106 101  75
  83 104 105  90  61  89  83 108 104 107 105 103 109 105 101  88
  75  67  61 102 108 104 109 106 106  73 106 103  68  86  64 108
 106 102 104 101 101  98  60  82  70  63  60  63  62  69  72  60
  60  60  62  64  60  60  60  60  60  60  60  60  60  60  60  72
  69  60  61  82  87  81  82  85  78  78  60  60  60  60  60  65
  60  60  65  75  82  78  76  80  63  60  60  61  72  69  73  64
  60  62  60  60  60  60  62  60  60  60  72  78  67  60  62  66
  60  60  60  68  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  66  60
  60  60  62  60  60  60  60  60  61  60  60  60  60  60  60  60
  67  60  60  60  60  60  61  60  60  60  60  60  62  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  62  84  85  83
  83  85  82  83  82  82  84  80  83  78  74  71  77  61  60  60
  61  60  60  72  70  60  81  82  84  86  84  82  86  80  80  75
  68  79  86  84  83  77  73  70  72  71  68  65  83  75  84  79
  82  76  81  69  71  68  73  69  68  62  60  64  68  70  63  62
  60  60  60  66  68  66  74  63  61  60  60  60  60  60  62  60
  60  62  62  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  73  61  61  60  64
%EOF


ENTER LOG DATE (DD/MM/YR) : 20/08/79
ENTER SITE CODE (5 CHARS) : 32016

ENTER USER CODE (4 CHARS) : 4693
 ENTER JOB CODE (3 CHARS) : 272


   DATA LOGGED :20  AUG 1979          DATA ANALYZED : 25 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : 32016
SERIAL NUMBER : 1217                        JOB CODE : 272
     BASELINE : 60 DB                      USER CODE : 4693
DYNAMIC RANGE : 64 DB                      THRESHOLD :  60 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                 STANDBY TIME =   0: 2:10

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                        %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      87.1      87.1          8.357      5.36
   2      99.7      95.8         47.652     56.01
   3     104.0      99.7         87.386    143.40
   4      78.8      97.7          2.650    146.04
   5      62.2      96.1           .265    146.31
   6      60.5      94.8           .208    146.52
   7      79.1      93.9          2.766    149.28
   8      63.7      92.9           .327    149.61
MIN. COMP. =  60 DB              MAX. COMP. = 112 DB
ARITHMETIC MEAN =  72 DB
STD. DEVIATION =  16 DB
VARIANCE =256 DB
```

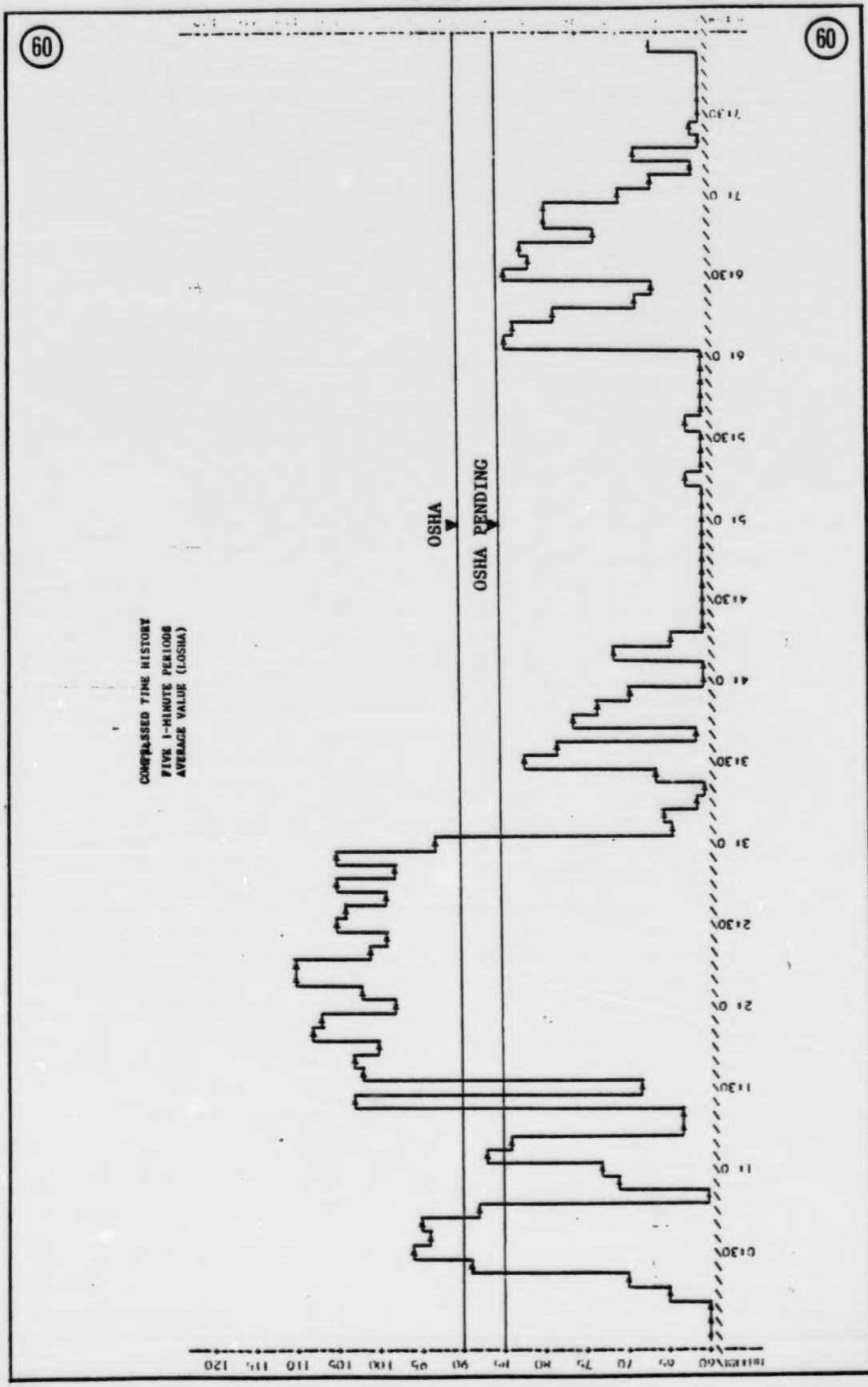
AMPLITUDE DISTRIBUTION

(60) (60)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
256	53.3	60 TO 64
36	7.5	65 TO 69
32	6.7	70 TO 74
20	4.2	75 TO 79
36	7.5	80 TO 84
13	2.7	85 TO 89
14	2.9	90 TO 94
15	3.1	95 TO 99
15	3.1	100 TO 104
33	6.9	105 TO 109
10	2.1	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




60
60
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0130
1 01
1130
2 01
2130
3 01
3130
4 01
4130
5 01
5130
6 01
6130
7 01
7130
60
65
70
75
80
85
90
95
100
105
110
115
120

61

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1212    60    64     4     1
      29     115200   480
 69  60  60  60  60  75  62  71  62  61  62  63  60  60  68  69
 65  81  83  82  90  84  81  80  77  81  82  81  88  85  93  93
 95  95  98  95  99  88  92  99  95  96 100  87  91  97  97  96
 98  91  81  61  60  60  60  60  60  60  63  63  64  61  61  61
 72  68  77  74  76  70  73  74  69  74  67  60  62  68  76  80
 73  70  73  75  70  69  79 109 106 108 106 110 104  92  88  85
 84  78  62  60  68  72  72  80  89  90  89  85  88  75  69  78
111 108 112 109 108 112 100  85 106  94  88 109 111 108 110 107
 95 112 110 110 111 113 111 110 109 111 111 108  76  75  66  63
 71  75  72 108  81  91  95  82  93 105 110 111 111 110 109  85
112  93 101 110  99 112 109 112 110 108 111  91  94 103  93 109
111 110 111 113 110 111 113 110 111 112 109 105 112  96  94 110
109 109 112 112 113 114 111 112 113 112 114 110 107 111 110 114
110 115 115  96  91  92  92  94 109  83  80 107 109 112 103  88
 98 106 114 108  88  84  88  92 109 106 105 113  83 103 112 109
105  82  70  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  67  60  60  60  60  60  60  60  60  60  60  60  61  61  62
 60  63  60  67  66  67  68  60  70  60 102 110 107 105  86  93
 72  70  76  61  60  61  64  69  71  70  68  60  60  69  62  65
 63  65  73  62  63  66  72  70  66  73  68  75  75  60  60  81
 91  90  90  88  91 102 102 105 109 103 109  96 108 108 107 109
106 108 108  96  90 111 103 111 111 108 102  93 102 107 109 111
111 110 111 110 109 109 109 107 110  95  96 111 109 110 108 108
111 111 110 109 109 111 109 110 110 112 108 109 109 109 108 106
110 108 108 104  88  86  76  88  89  89  92  91  94  80 108 105
 94 109  83  73  71  72  70  74  87 109 110 109 111 112 108 110
105 111 110 103  67  93  91  92  88  75  73  79  82  78  74  70
 60  64  62  62  60  61  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  68  64  67  60  60  61  61  60  60  60  60
 60  60  69  65  63  73  68  83  84  80  89  86  88  96  94  91
%EOF
```

61

```
ENTER LOG DATE (DD/MM/YR) : 30/07/79
ENTER SITE CODE (5 CHARS) : 32950
ENTER USER CODE (4 CHARS) : 4766

 ENTER JOB CODE (3 CHARS) : 272
```

```
   DATA LOGGED :30 JULY 1979          DATA ANALYZED : 20 SEPT 1979
        LOGGER : DB-301/26                SITE CODE : 32950
SERIAL NUMBER : 1212                       JOB CODE : 272
      BASELINE : 60 DB                     USER CODE : 4766
DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC               TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0             STANDBY TIME =   0: 0: 7
```

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	88.6	88.6	10.269	10.27
2	98.0	94.7	37.716	47.98
3	107.0	101.3	132.830	180.81
4	108.8	104.0	168.330	349.15
5	88.9	102.6	10.779	359.93
6	103.6	102.8	82.481	442.41
7	106.5	103.5	122.280	564.69
8	80.1	102.5	3.176	567.87

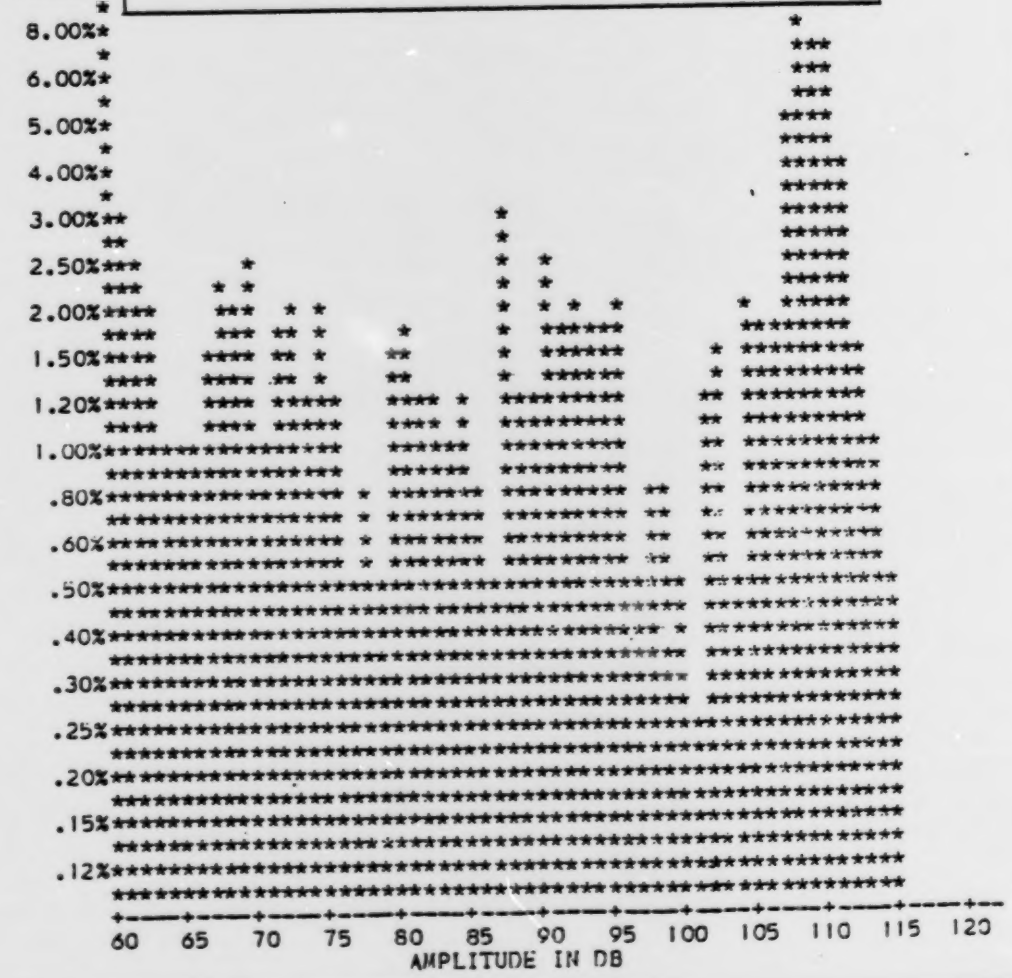
MIN. COMP. = 60 DB
ARITHMETIC MEAN = 86 DB
STD. DEVIATION = 20 DB
VARIANCE =400 DB
MAX. COMP. = 115 DB

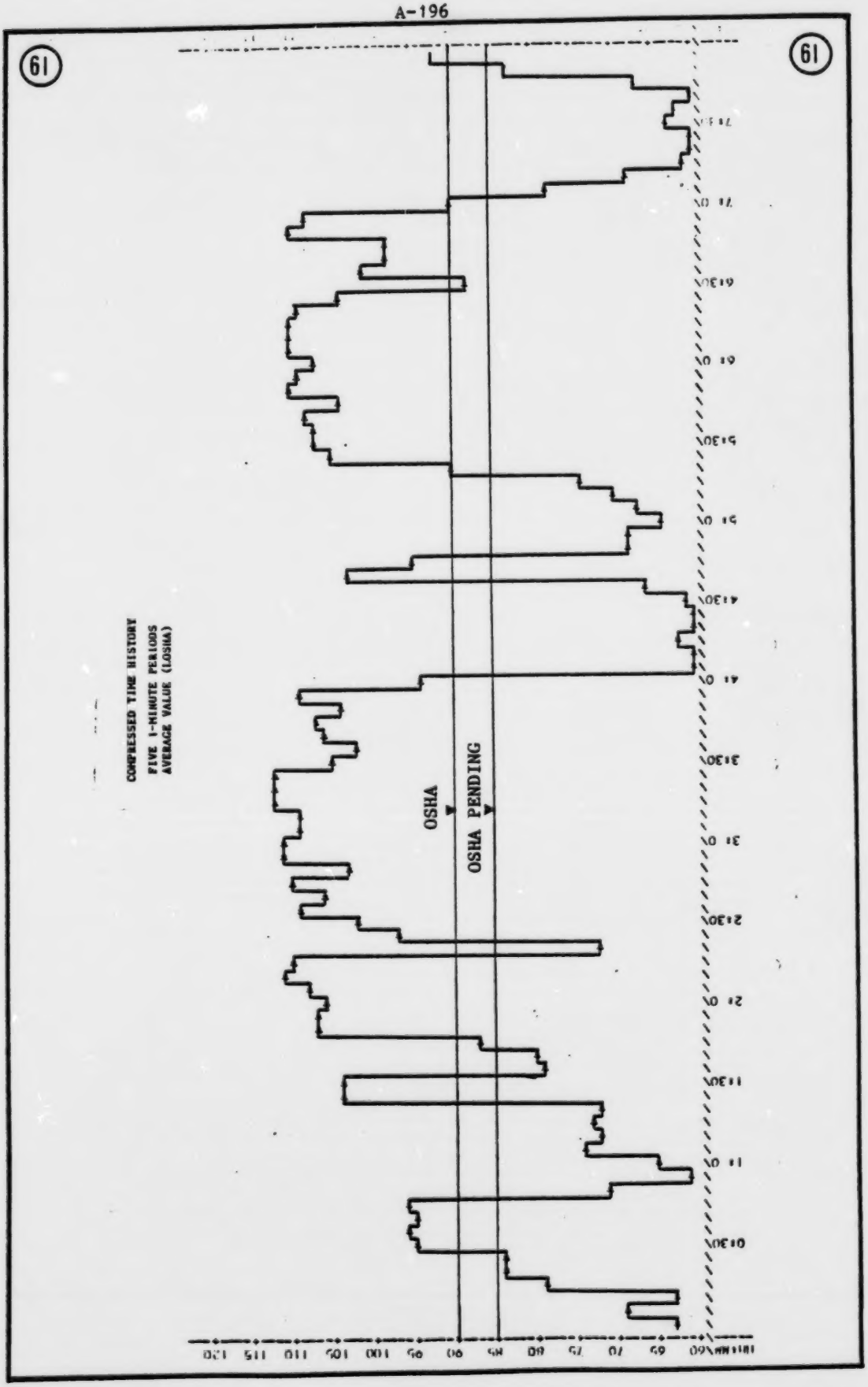
AMPLITUDE DISTRIBUTION

(61) (61)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
107	22.3	60 TO 64
31	6.5	65 TO 69
34	7.1	70 TO 74
20	4.2	75 TO 79
27	5.6	80 TO 84
28	5.8	85 TO 89
37	7.7	90 TO 94
23	4.8	95 TO 99
16	3.3	100 TO 104
74	15.4	105 TO 109
81	16.9	110 TO 114
2	.4	115 TO 119

TOTAL NO. OF DATA POINTS = 480




61
61
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1: 0
1:30
2: 0
2:30
3: 0
3:30
4: 0
4:30
5: 0
5:30
6: 0
6:30
7: 0
7:30
120
115
110
105
100
95
90
85
80
75
70
65
60

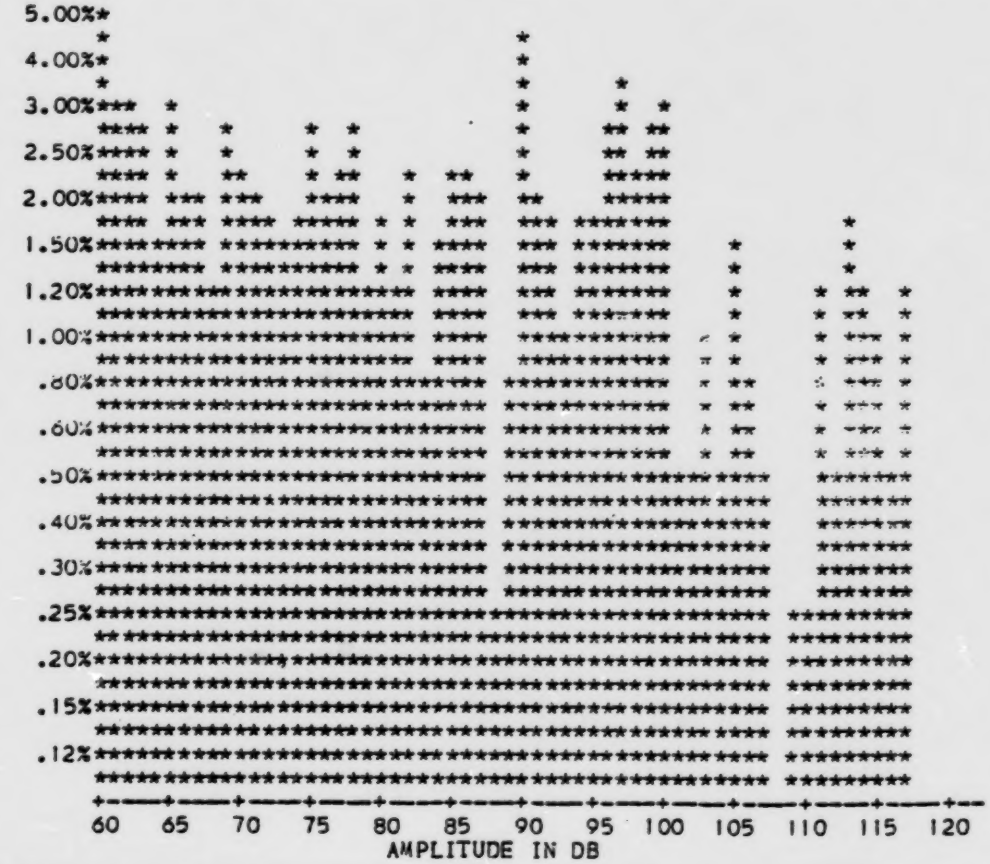
62

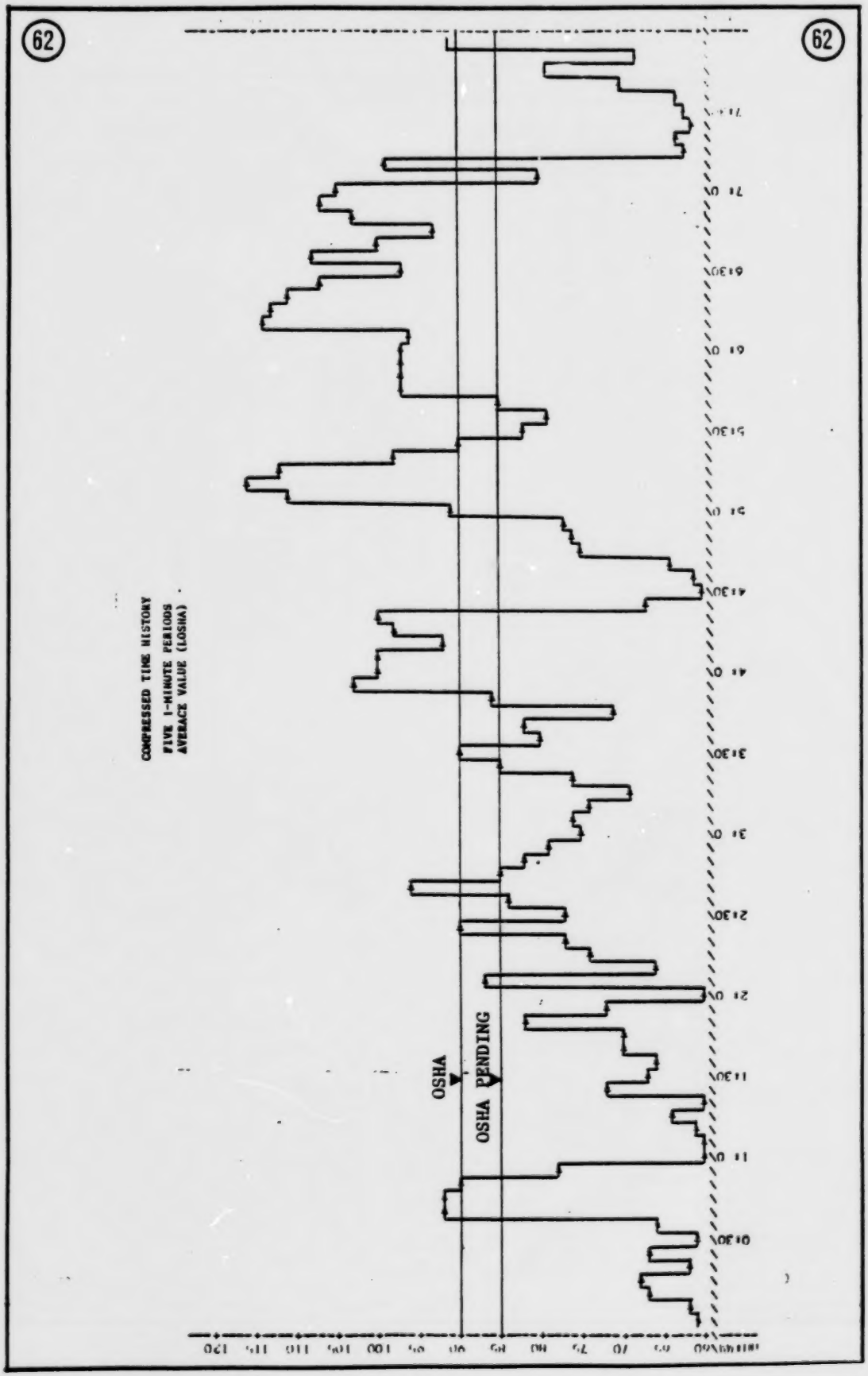
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1213   60   64    4    1
     103     115200  480
  61  65  60  60  60  63  62  60  61  63  62  64  60  70  73  72
  70  68  60  60  60  61  65  60  61  60  65  70  72  60  60  60
  60  65  60  65  67  60  67  69  75  93  92  92  96  92  94  92
  91  92  95  87  86  87  91  87  76  72  60  60  60  60  60  60
  60  60  60  60  60  60  60  62  60  60  62  60  60  61  70  60
  60  60  60  60  60  60  60  75  75  76  73  62  61  70  62  60
  62  66  64  71  61  69  73  71  69  70  63  61  66  77  89  87
  64  68  64  68  65  81  60  65  60  60  60  60  60  78  90  94
  86  60  60  60  62  72  66  63  74  71  77  78  67  69  68  84
  60  78  73  90  96  90  62  80  60  60  78  60  61  60  94  84
  85  85  96 105  78  75  85  78  91  83  87  86  79  60  79  77
  82  81  77  75  75  77  73  76  74  78  76  69  76  76  67  74
  73  78  72  72  70  66  63  71  80  79  69  71  75  74  70  69
  85  94  90  91  84  86  93  90  66  69  75  66  71  79  79  85
  88  75  68  75  69  64  78  90  89  60  87  97  95  96 109 105
 100 100 100  99 101  99 101 100 100  99  96  95  95  85  60  93
  90 102 100 100  98  99 100 103 100  71  72  60  60  60  60  60
  60  60  60  60  60  60  63  63  63  69  62  60  60  60  67  71
  77  82  82  74  74  76  60  70  77  81  77  78  86  90  86  85
  99  97  99 105 115 117 117 117 115 117 116 117 116 110  96  94
  99  99  99  99  95  90  90  95  83  83  82  81  81  84  80  82
  84  82  65  60  69  82  92  66  87  96  97  96  96  98  98  97
  98  96  97  97  97  98  98  97  96  97  97  97  97  97  98  93
  90  99 112 115 114 115 114 113 113 113 113 113 113 113 114 111
  85 105 112 103 106 103  90  87  86  84 107 106 104 111 111 107
 106 102  73  86 100 100  89  91  90  90  92  90  91  90 114 105
  95 104 111 111 114  97  98 100  77  60  60  90  60  80  98 103
 105  91  65  60  62  65  60  60  67  63  63  60  60  63  61  60
  60  60  61  60  60  61  65  60  67  62  62  60  60  60  61  60
  80  80  86  75  76  64  62  66  65  67  74  82  85  91  94  94
%EOF


ENTER LOG DATE (DD/MM/YR) : 22/08/79
ENTER SITE CODE (5 CHARS) : 35950
ENTER USER CODE (4 CHARS) : 7289

 ENTER JOB CODE (3 CHARS) : 270


   DATA LOGGED :22  AUG 1979          DATA ANALYZED : 25 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : 35950
SERIAL NUMBER : 1213                         JOB CODE : 270
      BASELINE : 60 DB                      USER CODE : 7289
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 0:25

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                        %DOSE
HOUR     CURRENT  CUMULATIVE        CURRENT  CUMULATIVE
   1       82.3      82.3           4.294      4.29
   2       70.3      78.5            .814      5.11
   3       84.9      81.3           6.134     11.24
   4       87.9      83.6           9.367     20.61
   5       92.6      86.5          17.817     38.43
   6      104.6      94.1          94.776    133.20
   7      106.9      97.9         129.619    262.82
   8       90.6      97.3          13.524    276.35
MIN. COMP. =  60 DB                MAX. COMP. = 117 DB
ARITHMETIC MEAN =  79 DB
STD. DEVIATION =  17 DB
VARIANCE =289 DB
```

AMPLITUDE DISTRIBUTION

(62) (62)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
135	28.1	60 TO 64
44	9.2	65 TO 69
37	7.7	70 TO 74
44	9.2	75 TO 79
30	6.3	80 TO 84
30	6.3	85 TO 89
43	9.0	90 TO 94
52	10.8	95 TO 99
22	4.6	100 TO 104
12	2.5	105 TO 109
20	4.2	110 TO 114
11	2.3	115 TO 119
TOTAL NO. OF DATA POINTS = 480		




62
62
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
7:0

63

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

63

```
 1  26  80  1218    60    64     4     1
    129      115200   480
 60  60  60  60  60  61  70  71  68  68  67  67  71  74  81  81
 88  88  83  83  80  81  85  79  87  90  90  93  97  90  96  93
 98  91  85  97  96  91  97  95  90  96  97  95  96  95  84  92
 95  96  93  95  80  65  67  63  65  68  64  73  71  65  61  64
 71  96  93  92  90  87  64  60  60  62  76  69  65  66  60  60
 60  89  89  88  89  88  88  87  88  89  83  87  89  88  93  87
 87 105 106  99 106 105 104 108 102 108 107  96  95  95  96 101
106  96 107 107 100 110 109 102 107 106  99  96  95  95  95  96
 95 104 106 102 105 104 103 107 106 101 108 107 106 100  95  95
 95  94  96  95  94  95 107 104 104 107 103 109 108 105 109 108
 96  96  95 101 108 100  94 102  64  60  68  60  64  60  60  60
 60  67  69  61  60  60  60  73  81  63  65  66  62  63  60  60
 61  62  64  65  85  86  80  76  64  63  62  76  60  63  60  66
 71  74  89  93 105 102 106 108 104 104 105 110 102  97  97  95
 96  95  96  94 107 103 104  98  98  95 105 104 105 106 106 107
106 109 106 103  95  97  93  91 102 106 105 100 106 105 105 106
105 109 108 107  94  94  95  96 107 107 105 106 101 107 102 104
105 106 102  96  96  96  96 107 106  95  95 106 104 102 107 102
111 109 108 103  97  97  96  96 109 107 110 109 109 107 106 110
110 105  97  97  95 106 108  97  95  96 106 112  98  88  88  95
 96  96  95 106 109 107 111 105 111 110 103  96  97  97  97  97
106 109 107 110 105 113 109 109 111 110  99  96  95  96  96 107
109 107 106 102 106 104 104 103 104  96  97  96  96  97 110 107
103 103 102 109 103 105 106 106 108  97  96  96  96  91  69  69
 62  64  69  65  66  73  70  66  72  61  69  69  73  81  67  71
 70  72  71  67  74  78  71  71  72  65  63  60  62  76  74  77
 88 107 108  95 108 109 103 104 108 106 110 112 106  95  96  95
 92  88  70  77  78  86  83  83  87  86  88  94  94  88  93  93
 92  80  74  69  75  74  70  70  69  76  76  73  72  72  65  70
 60  63  74  74  83  80  87  87  89  96  96  95  90  99  94  97
%EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 30/07/79
ENTER SITE CODE (5 CHARS) : 35950
ENTER USER CODE (4 CHARS) : 4766
 ENTER JOB CODE (3 CHARS) : 272
```

```
   DATA LOGGED :30 JULY 1979          DATA ANALYZED : 20 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 35950
 SERIAL NUMBER : 1218                       JOB CODE : 272
      BASELINE : 60 DB                     USER CODE : 4766
 DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 DB
 SAMPLING RATE :  4/SEC              TOTAL SAMPLES =  115200
 TEST DURATION =   8: 0: 0            STANDBY TIME =   0: 0:32
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

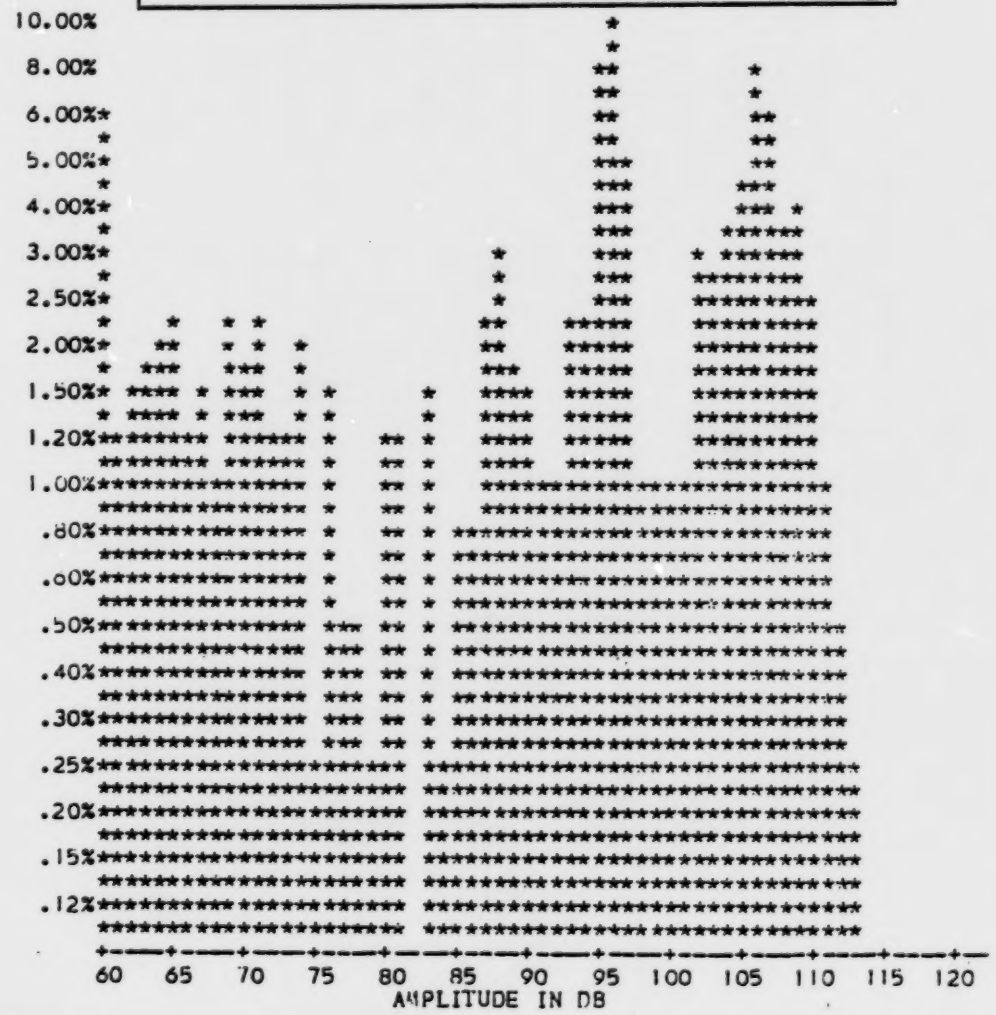
TIME	LOGA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	89.2	89.2	11.265	11.26
2	98.3	95.1	39.580	50.85
3	101.4	97.8	60.444	111.29
4	98.0	97.9	37.915	149.20
5	104.2	99.7	90.012	239.22
6	105.3	101.0	104.422	343.64
7	97.1	100.5	33.370	377.01
8	96.5	100.1	30.710	407.72

```
MIN. COMP. =  60 DB                MAX. COMP. = 113 DB
ARITHMETIC MEAN =  90 DB
STD. DEVIATION =  16 DB
VARIANCE =256 DB
```

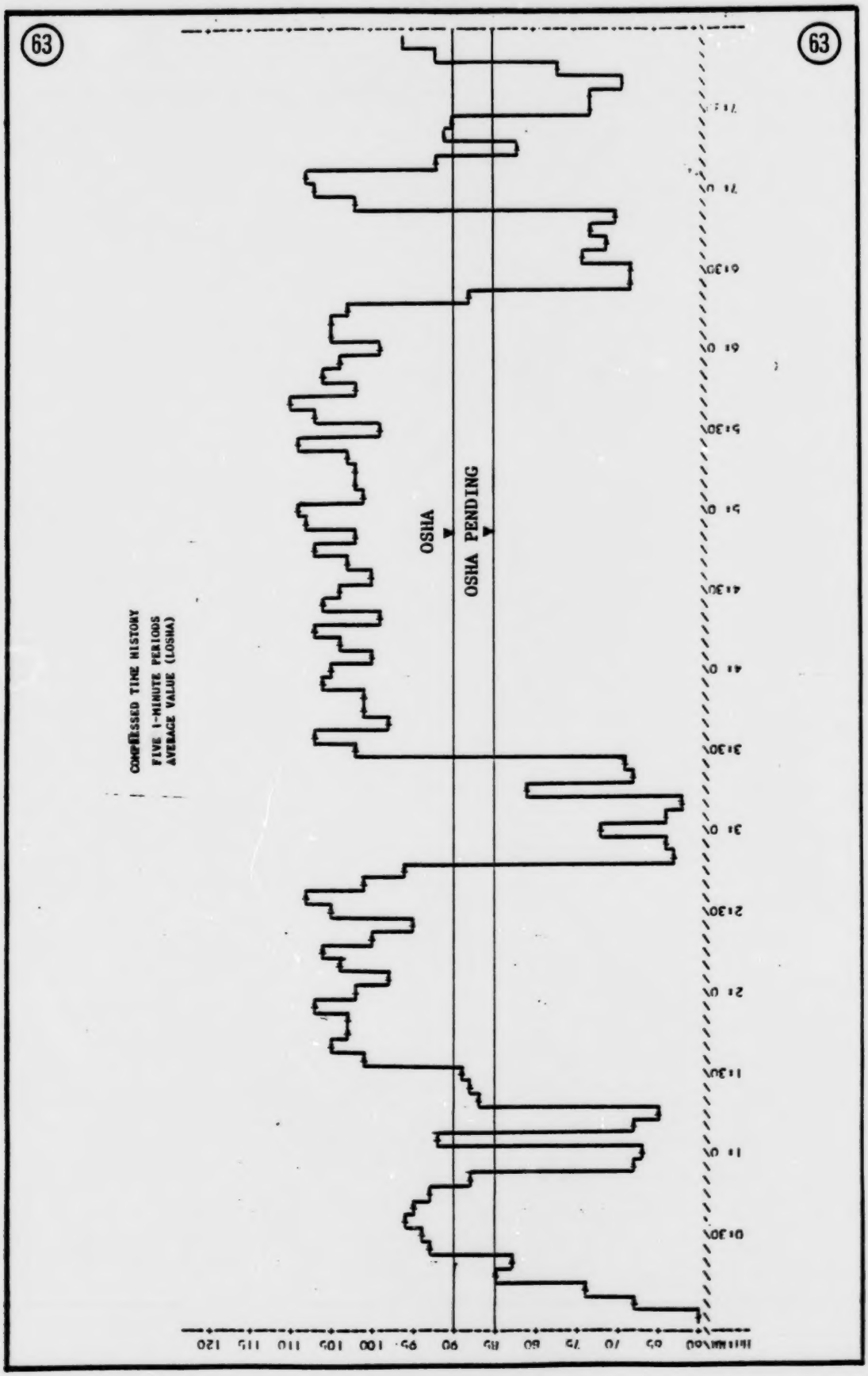
63

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
51	10.6	60 TO 64
33	6.9	65 TO 69
34	7.1	70 TO 74
12	2.5	75 TO 79
17	3.5	80 TO 84
35	7.3	85 TO 89
32	6.7	90 TO 94
100	20.8	95 TO 99
47	9.8	100 TO 104
102	21.3	105 TO 109
17	3.5	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480



63


63
63
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
dBA
60
65
70
75
80
85
90
95
100
105
110
115
120
0:30
1:00
1:30
2:00
2:30
3:00
3:30
4:00
4:30
5:00
5:30
6:00
6:30
7:00
7:30

(64)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1212    60    64     4     1
     120     115200  4H0
```

60	60	63	61	60	60	60	60	68	61	60	60	61	60	71	65
63	66	60	60	60	60	70	70	60	67	93	96	91	95	87	84
86	82	88	91	91	92	91	87	78	65	60	69	62	60	60	60
60	60	60	60	60	60	60	60	60	60	63	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	75	76	78	71	66	60	62	67	60	78	66	67	62
83	82	80	78	71	83	91	72	79	83	83	81	85	91	90	93
83	82	82	82	81	81	84	85	68	62	60	66	62	67	68	66
62	61	67	67	65	62	66	74	60	65	63	64	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	64	60	63
60	60	62	65	64	62	61	62	72	69	60	60	60	60	60	61
62	60	60	60	60	60	60	60	62	60	60	60	62	65	61	67
64	60	60	65	63	68	64	60	60	62	66	63	60	60	60	61
60	60	67	69	70	83	80	74	65	64	61	70	68	69	73	81
76	81	80	79	92	89	81	80	80	80	80	80	82	81	60	68
60	60	60	60	62	61	60	60	60	60	60	60	69	74	77	60
60	60	60	60	82	60	60	60	60	60	76	62	61	60	60	76
60	83	68	60	60	60	61	60	60	75	75	75	76	70	72	82
78	71	77	80	78	83	60	60	60	81	68	60	60	60	60	60
60	76	83	83	84	84	84	84	85	85	85	83	85	86	86	86
85	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
84	84	83	81	85	83	86	86	86	86	86	86	86	86	86	80
83	80	79	70	88	90	83	78	79	79	75	78	79	79	81	90
92	78	82	61	62	70	66	64	66	68	77	96	95	92	88	87
85	80	83	76	80	81	82	87	86	95	98	94	88	77	60	66
62	60	66	61	60	60	60	60	60	60	61	60	60	76	76	94
60	72	75	73	86	97	97	98	98	99	99	99	99	98	94	76
68	62	62	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	61	60	60	60	62	60	60	65	61	65	72	96

```
'EOF


ENTER LOG DATE (DD/MM/YR) : 21/08/79
ENTER SITE CODE (5 CHARS) : 98013
ENTER USER CODE (4 CHARS) : 4608
 ENTER JOB CODE (3 CHARS) : 272


   DATA LOGGED :21  AUG 1979          DATA ANALYZED : 25 SEPT 1979
        LOGGER : DB-301/26                SITE CODE : 98013
SERIAL NUMBER : 1212                       JOB CODE : 272
      BASELINE : 60 DB                    USER CODE : 4608
DYNAMIC RANGE : 64 DB                     THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0:30

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          OSHA                      NOISE
HOUR     CURRENT  CUMULATIVE        CURRENT  CUMULATIVE
   1        80.6        80.6          3.411        3.41
   2        78.8        79.8          2.660        6.07
   3        69.6        77.4           .495        6.56
   4        75.0        76.9          1.554        8.11
   5        71.4        76.1           .946        9.06
   6        83.7        78.0          5.192       14.25
   7        83.8        79.2          5.304       19.55
   8        85.9        80.5          7.071       26.62
MIN. COMP. =  60 DB                MAX. COMP. =  99 DB
ARITHMETIC MEAN =  70 DB
STD. DEVIATION =  12 DB
VARIANCE =144 DB
```

(64)

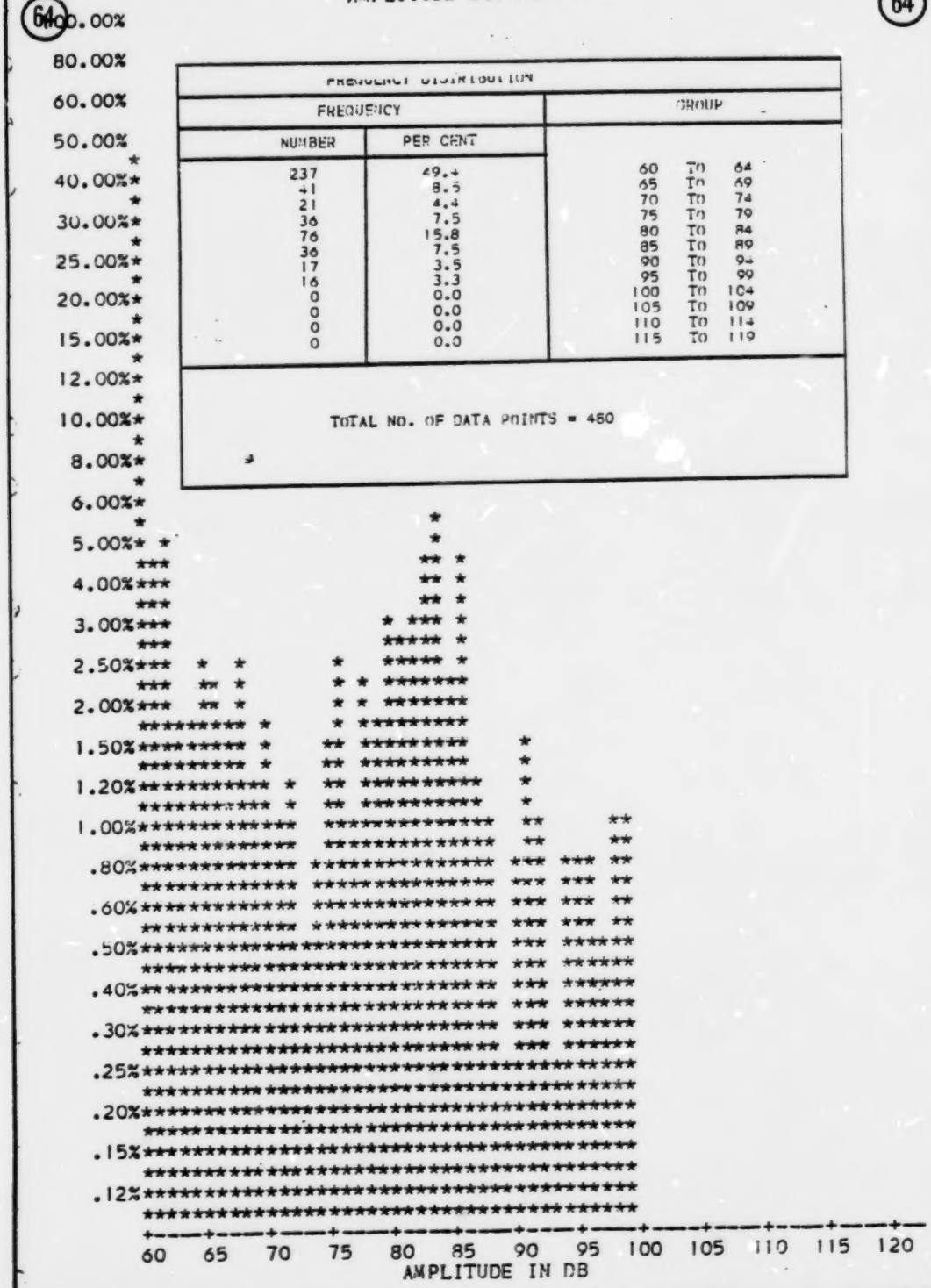
AMPLITUDE DISTRIBUTION

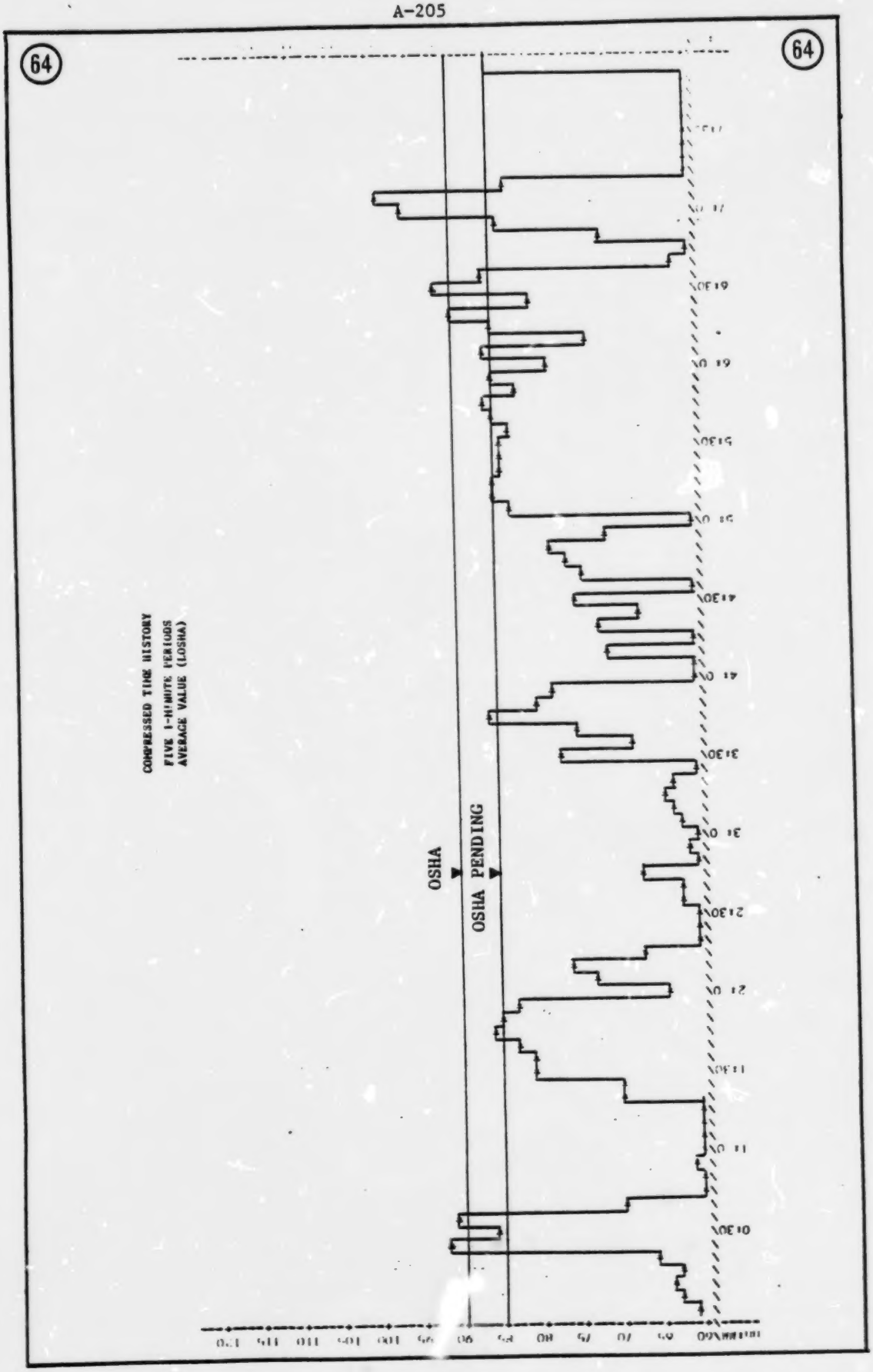
(64) (64)

FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
237	49.4	60 TO 64
41	8.5	65 TO 69
21	4.4	70 TO 74
36	7.5	75 TO 79
76	15.8	80 TO 84
36	7.5	85 TO 89
17	3.5	90 TO 94
16	3.3	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




64
64
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

65 65

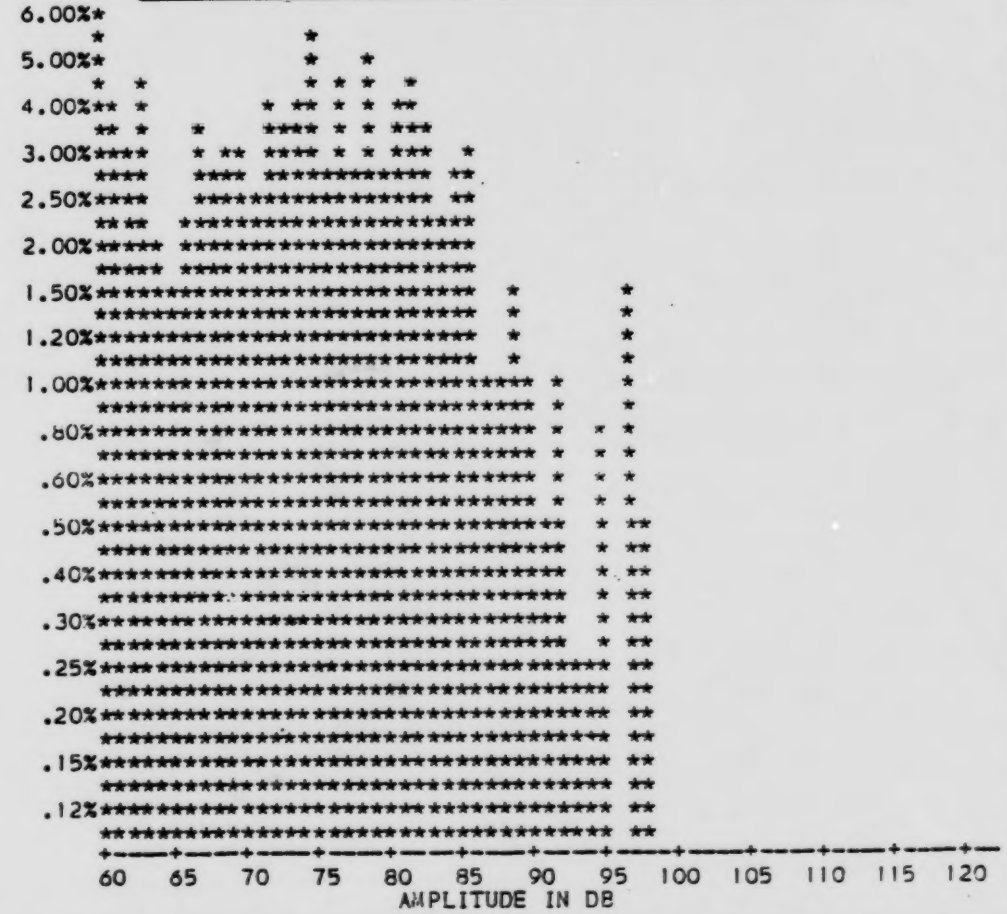
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1224   60   64    4    1
     81     115200  480
  62  61  60  68  60  60  67  67  60  64  60  65  69  61  68  83
  85  86  91  83  82  86  72  85  68  84  89  85  95  95  92  97
  97  97  97  77  82  62  60  60  68  60  74  63  60  60  60  61
  61  62  73  77  60  60  60  60  60  60  61  60  60  61  60  60
  60  60  60  61  67  60  60  71  74  68  60  63  60  60  64  60
  60  60  60  60  60  60  65  60  60  60  60  64  62  60  61  60
  61  68  78  86  79  70  63  77  79  84  92  90  83  69  62  82
  83  63  79  81  82  81  81  79  72  69  85  92  89  91  65  74
  83  62  61  60  60  60  60  60  60  60  68  60  60  60  60  60
  70  63  63  69  74  63  60  60  60  63  61  75  80  82  83  80
  79  81  80  83  82  78  76  82  80  78  86  87  86  86  81  78
  84  73  64  67  76  75  78  67  77  86  78  63  60  80  88  93
  90  90  83  76  86  71  76  72  77  66  98  86  76  77  60  82
  86  85  81  82  83  82  68  69  77  87  89  89  84  89  84  75
  81  78  74  85  92  69  85  84  88  89  97  95  98  79  62  77
  66  69  81  75  84  71  76  72  81  75  74  72  76  71  80  75
  67  79  75  73  75  76  72  71  75  70  69  79  78  79  82  82
  71  60  60  60  60  61  63  62  60  60  60  64  60  60  60  60
  60  60  60  60  60  62  75  70  72  80  60  60  60  77  60  76
  83  80  74  77  74  71  60  64  63  63  72  69  71  73  62  74
  75  67  66  61  71  63  62  70  64  60  67  69  60  60  73  60
  60  77  79  75  81  82  80  81  79  85  82  83  79  82  86  90
  88  76  88  66  78  60  60  75  61  60  68  94  97  73  81  72
  60  68  62  66  60  67  69  67  60  67  72  70  79  77  81  79
  77  66  74  72  74  77  73  75  73  75  74  74  74  67  74  61
  63  79  83  85  85  78  80  81  75  87  85  80  60  70  63  69
  70  70  67  70  73  72  63  75  65  72  60  67  82  65  81  84
  84  75  61  78  73  72  75  77  86  83  73  83  79  77  82  79
  76  73  72  79  75  75  73  65  66  72  71  63  73  81  60  60
  60  66  64  74  79  60  60  60  77  86  68  66  70  70  75  87
%EOF


ENTER LOG DATE (DD/MM/YR) : 30/07/79

ENTER SITE CODE (5 CHARS) : 98013
ENTER USER CODE (4 CHARS) : 4769
 ENTER JOB CODE (3 CHARS) : 272


   DATA LOGGED :30 JULY 1979          DATA ANALYZED : 20 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 98013
SERIAL NUMBER : 1224                        JOB CODE : 272
     BASELINE : 60 DB                      USER CODE : 4769
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0:20

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                    %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      83.3      83.3          4.970      4.97
   2      75.4      80.4          1.648      6.62
   3      78.7      79.9          2.606      9.22
   4      85.4      81.7          6.641     15.87
   5      73.2      80.6          1.217     17.08
   6      77.0      80.1          2.061     19.14
   7      78.5      79.9          2.532     21.67
   8      76.2      79.6          1.854     23.53
MIN. COMP. =  60 DB            MAX. COMP. =  98 DB
ARITHMETIC MEAN =  72 DB
STD. DEVIATION =  10 DB
VARIANCE =100 DB
```

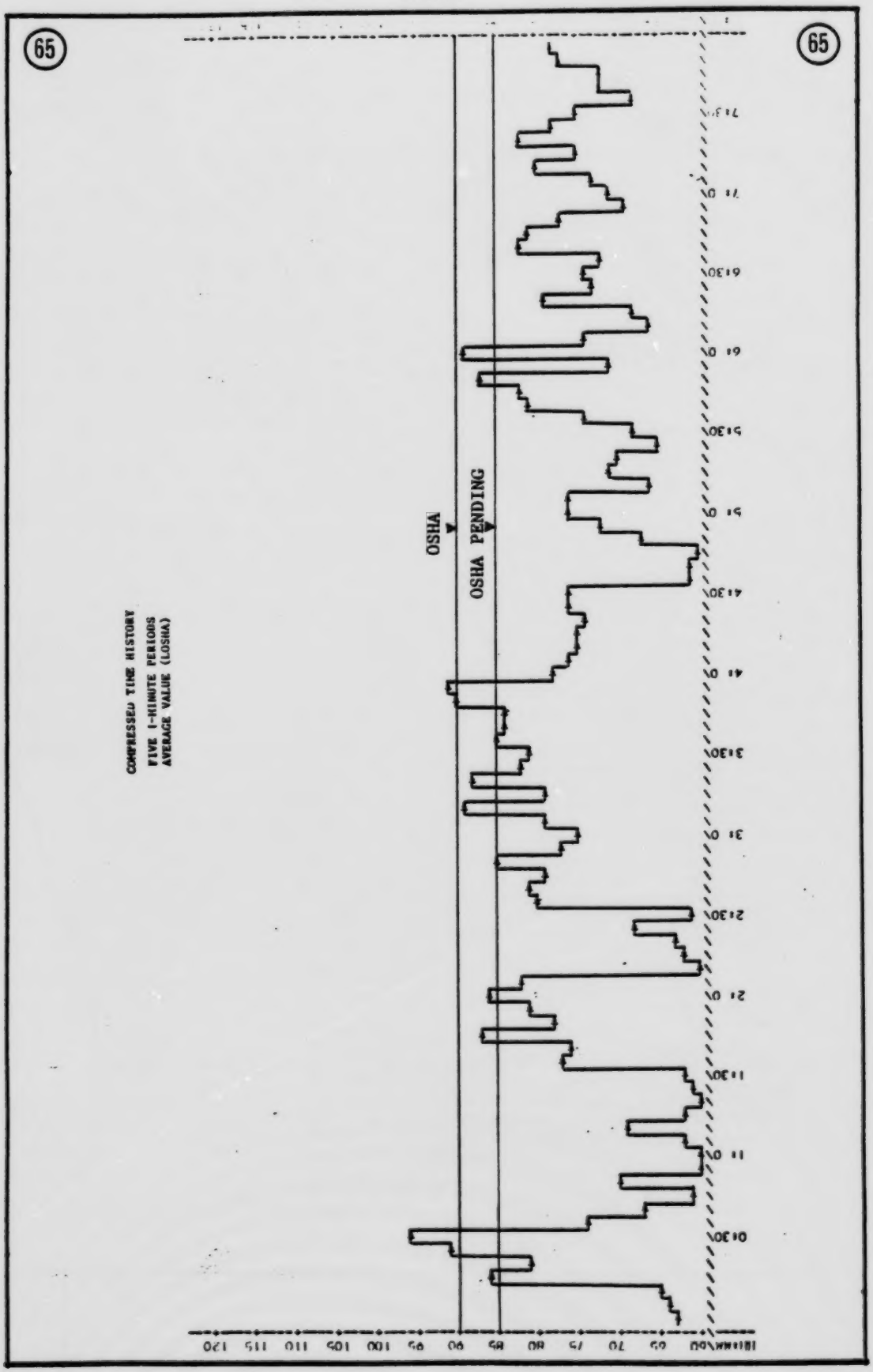
AMPLITUDE DISTRIBUTION

(65) (65)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
152	31.7	60 TO 64
52	10.8	65 TO 69
68	14.2	70 TO 74
80	16.7	75 TO 79
67	14.0	80 TO 84
38	7.9	85 TO 89
12	2.5	90 TO 94
11	2.3	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




65
65
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
18MAR80
65
70
75
80
85
90
95
100
105
110
115
120
01:30
11 01
11:30
21 01
21:30
31 01
31:30
41 01
41:30
51 01
51:30
61 01
61:30
71 01
71:30

66

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1225   60   64    4    1
     670    115200  480
  72  67  60  68  60  64  68  73  77  74  68  73  69  69  60  71
  86  81  88  87  82  80  72  80  82  74  87  86  91  93  95  90
  95  92  97  90  70  77  60  60  60  65  60  60  60  60  60  60
  61  60  60  60  60  60  61  60  60  60  71  60  64  60  60  60
  60  60  60  60  60  60  60  60  60  62  60  60  60  60  60  60
  60  60  60  60  62  67  60  60  61  69  68  73  65  60  79  66
  77  60  70  70  88  76  78  75  82  83 116 116 116  72  72  67
 108  79  78  83  82  82  83  82  82  82  82 117 116 118  94  63
 101  61  60  60  60  61  62  60  61  64  60  63  60  69  79  74
  64  60  60  60  60  60  60  60  60  60  61  61  75  78  65  61
  69  60  60  65  67  68  74  73  84  84  86  65  64  63  60  60
  66  61  60  60  50  60  60  64  60  77  94  72  80  82 110 119
 120 105 117  81 104  88  84  85  82  83 112 116  83 106  82  83
  71  79  60  60  76  76  88  78  85 110 120 119 110 117 115  89
  89  85  84  84 113 101 105 113 110 116 116 113 119  95  72  62
  60  68  75  72  64  68  63  67  68  73  67  69  63  62  64  66
  61  69  70  60  60  68  65  62  71  61  60  60  61  61  61  68
  62  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  63  61  73  69  73  79  69  72  84
 106  96  72  60  60  64  60  60  60  61  62  60  62  60  60  60
  60  63  62  60  60  60  70  79  63  67  64  60  72  75  80  83
  80  86  82  83 102  86  85  86  84  90  89  86  90  96  97 116
 120 105 113  70  92  77  68  92  82  81  83 117 109  60  60  60
  62  79  68  76  68  77  71  70  73  71  72  67  75  76  67  70
  71  78  78  74  71  77  74  73  64  65  69  61  60  60  63  60
  72  74  77  78  79  77  80  80  76  78  78  80  60  60  60  60
  60  60  60  60  69  60  60  66  67  66  66  73  82  88  91 117
 120  84  87  90  90  94  83 110  76  81  68  72  63  61  66  74
  73  67  77  65  71  71  62  64  64  62  60  60  63  77  62  60
  60  60  61  68  80  60  60  60  71  86  70  65  66  70  67  86
%EOF


ENTER LOG DATE (DD/MM/YR) : 30/07/79
ENTER SITE CODE (5 CHARS) : 98013
ENTER USER CODE (4 CHARS) : 4686
 ENTER JOB CODE (3 CHARS) : 272


   DATA LOGGED :30 JULY 1979          DATA ANALYZED : 20 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : 98013
 SERIAL NUMBER : 1225                       JOB CODE : 272
      BASELINE : 60 DB                     USER CODE : 4686
 DYNAMIC RANGE : 64 DB                     THRESHOLD : 80 DB
 SAMPLING RATE :  4/SEC            TOTAL SAMPLES =  115200
 TEST DURATION =   8: 0: 0          STANDBY TIME =   0: 2:47

        TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                    %DOSE
HOUR     CURRENT  CUMULATIVE     CURRENT  CUMULATIVE
   1        81.8        81.8       3.983        3.98
   2        96.1        92.0      29.112       33.09
   3        95.0        93.6      28.761       61.86
   4       108.1       100.6     154.570      216.43
   5        65.1        99.0        .394      216.82
   6        97.4        98.7      34.816      251.64
   7        90.3        98.0      12.950      264.59
   8        95.8        97.7      27.797      292.38
MIN. COMP. =  60 DB              MAX. COMP. = 120 DB
ARITHMETIC MEAN =  73 DB
STD. DEVIATION =  16 DB
VARIANCE =256 DB
```

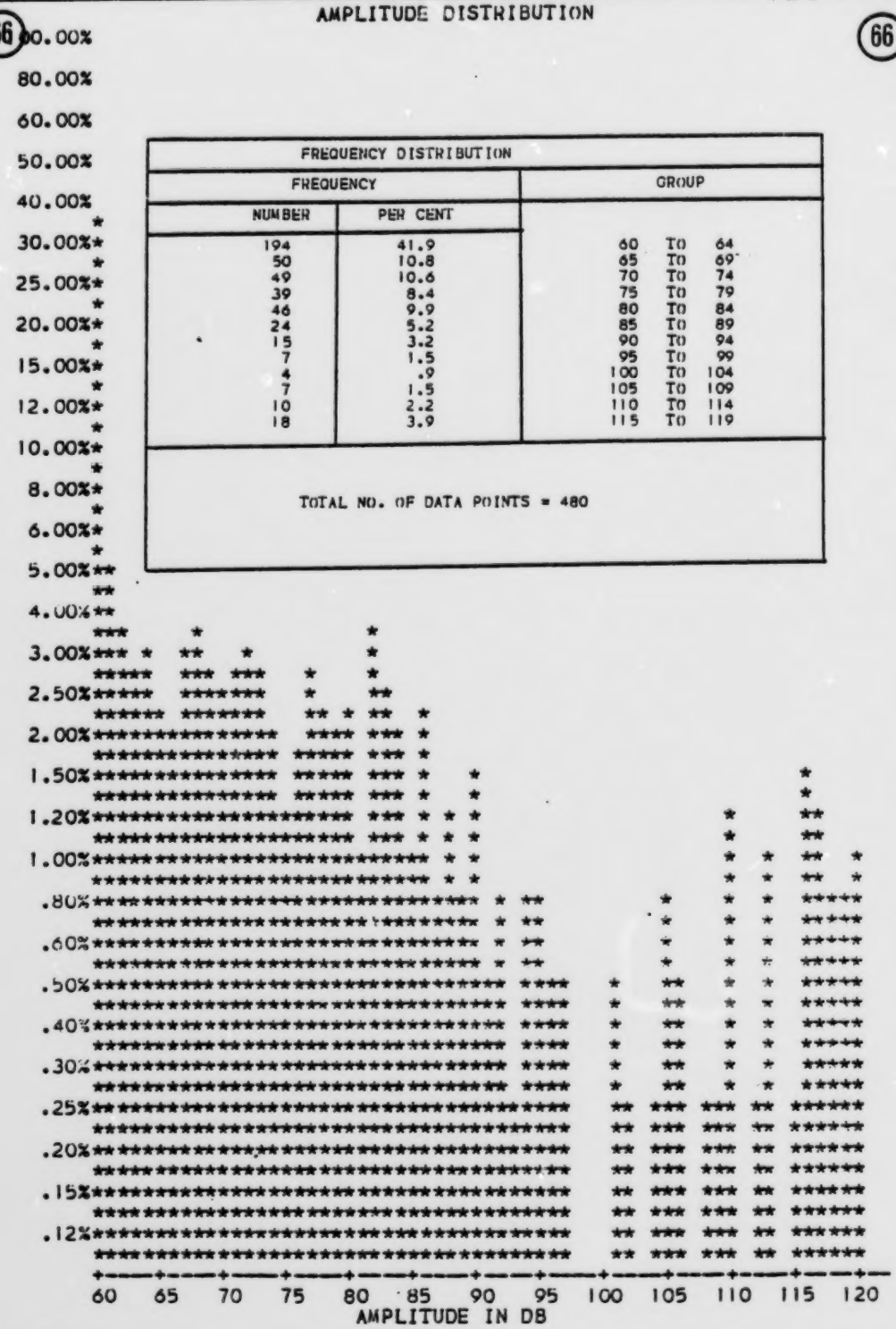
66

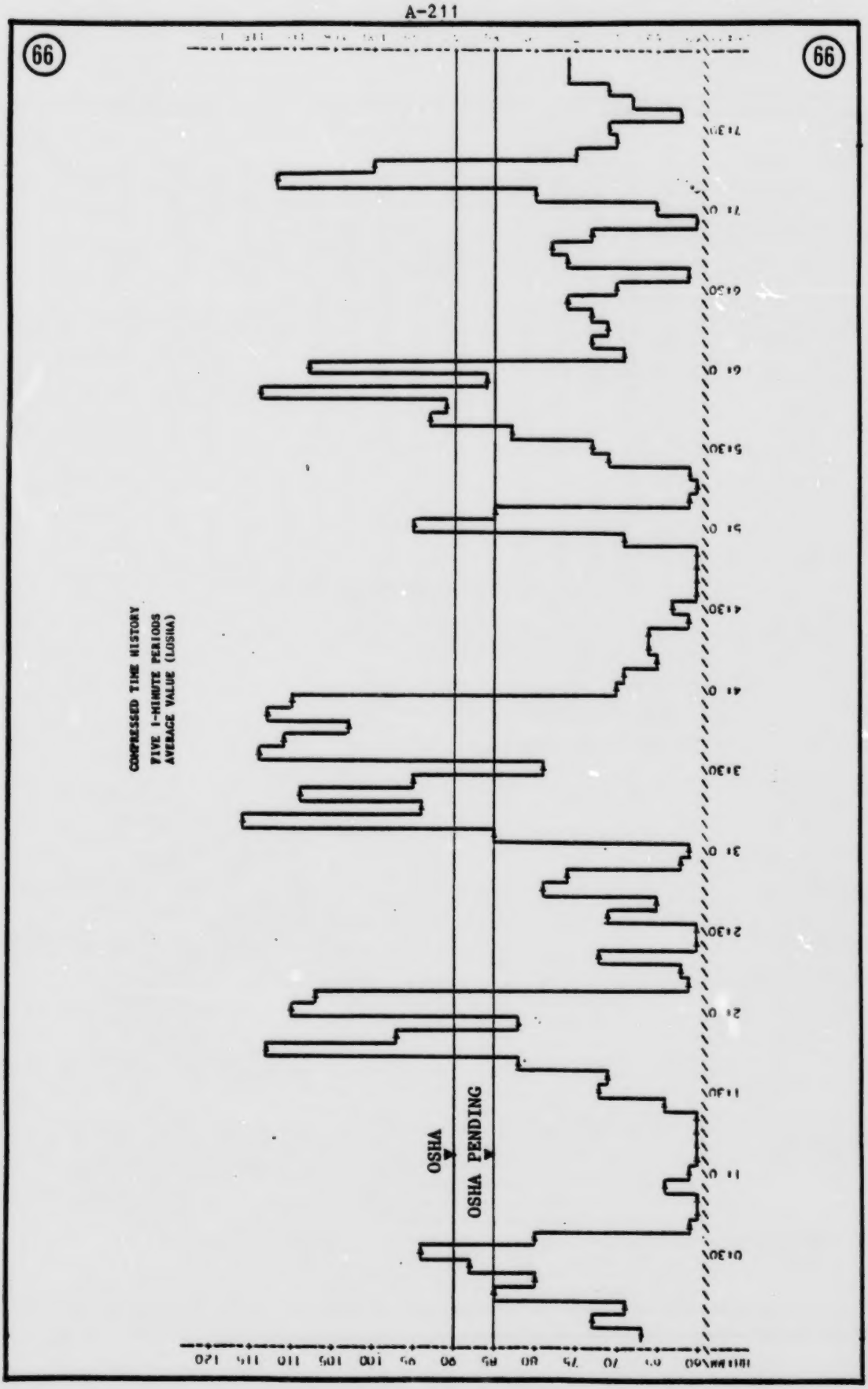
AMPLITUDE DISTRIBUTION

(66) (66)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
194	41.9	60 TO 64
50	10.8	65 TO 69
49	10.6	70 TO 74
39	8.4	75 TO 79
46	9.9	80 TO 84
24	5.2	85 TO 89
15	3.2	90 TO 94
7	1.5	95 TO 99
4	.9	100 TO 104
7	1.5	105 TO 109
10	2.2	110 TO 114
18	3.9	115 TO 119

TOTAL NO. OF DATA POINTS = 480




66
66
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
7:0
7:30
120
115
110
105
100
95
90
85
80
75
70
65
60

67

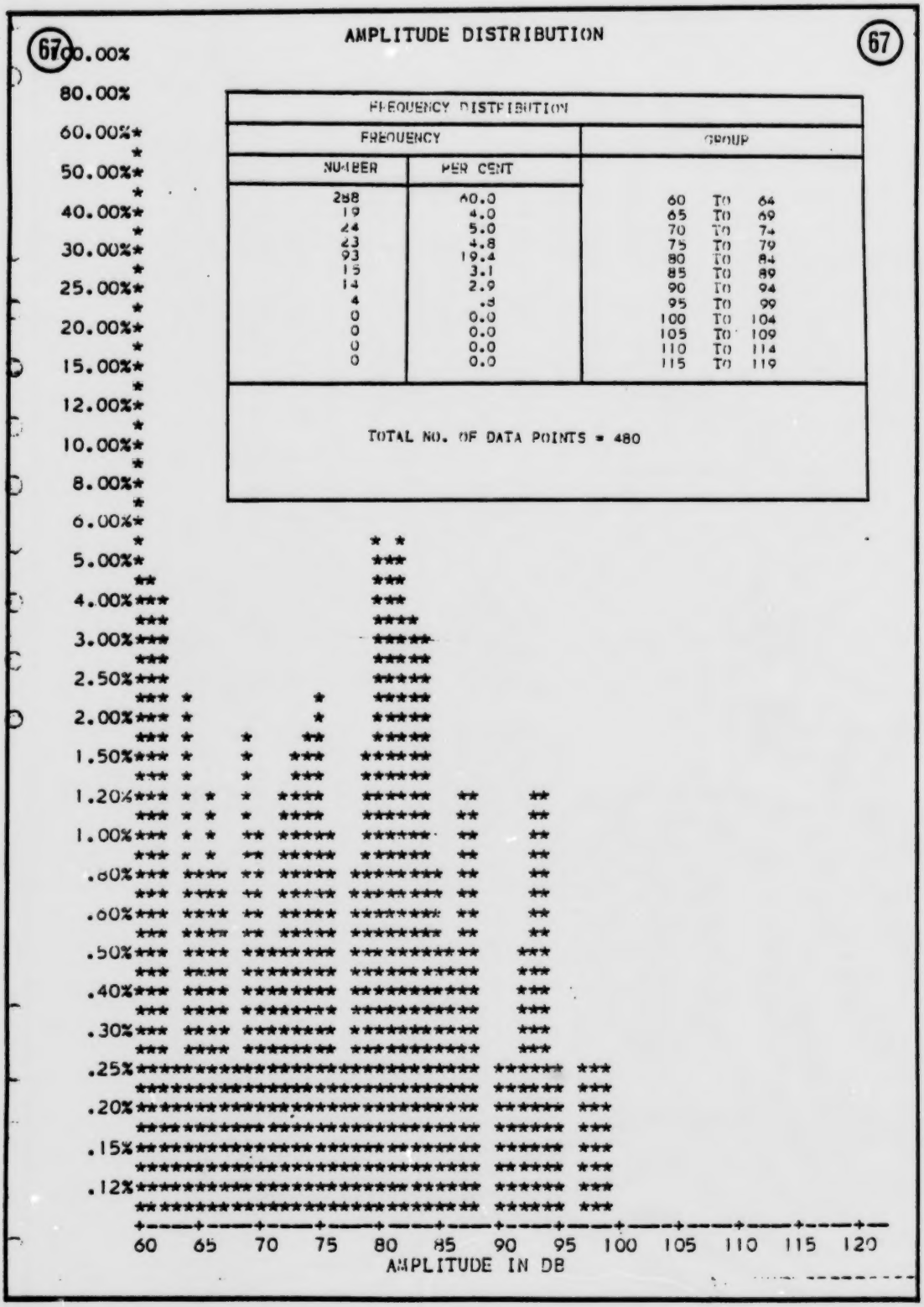
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1220   60   64    4    1
     79     115200  480
  60  60  60  60  60  62  60  60  60  60  61  62  60  60  60  61
  60  61  62  66  66  64  67  64  60  73  60  60  60  60  64  64
  60  60  61  67  62  69  88  93  93  88  86  76  72  60  76  60
  60  60  60  60  60  60  60  60  60  60  60  60  61  61  60  60
  60  60  60  60  60  61  60  61  64  60  60  60  60  62  60  60
  60  60  60  60  60  60  60  60  62  72  82  82  80  80  81  82
  82  87  85  84  84  84  84  83  84  84  85  80  81  81  81  85
  92  91  83  83  83  82  83  83  82  83  84  60  60  61  74  65
  74  76  67  66  61  60  66  64  62  60  60  60  69  60  64  61
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  65  60  60  62  60  62  61  69  69
  62  75  82  74  69  90  92  94  97  98  88  99  93  87  80  80
  81  75  60  60  60  60  60  60  60  60  60  61  60  60  60  60
  69  82  60  61  62  60  60  84  73  66  61  60  60  79  60  60
  60  60  78  60  82  82  60  78  70  62  72  64  64  62  62  60
  61  69  83  84  83  83  83  84  84  82  82  82  82  82  82  82
  82  82  82  82  82  83  83  81  81  93  95  94  94  94  94  83
  80  80  80  80  80  80  81  80  80  80  80  80  81  81  81  81
  81  81  80  79  80  80  81  81  80  73  60  60  60  60  60  60
  74  79  78  75  60  60  60  60  82  74  60  60  60  60  60  70
  83  81  75  84  87  81  81  75  61  60  60  60  68  74  74  70
  84  87  88  79  75  77  81  71  75  76  72  79  86  87  93  88
  73  70  75  60  60  60  60  60  60  60  60  61  60  60  60  60
  60  60  62  73  60  79  72  60  71  60  75  80  60  60  73  60
  80  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  63  60  62  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  65  60
%EOF


ENTER LOG DATE (DD/MM/YR) : 21/08/79
ENTER SITE CODE (5 CHARS) : 98013
ENTER USER CODE (4 CHARS) : 4761

 ENTER JOB CODE (3 CHARS) : 272


   DATA LOGGED :21  AUG 1979          DATA ANALYZED : 25 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : 98013
SERIAL NUMBER : 1220                         JOB CODE : 272
      BASELINE : 60 DB                       USER CODE : 4761
DYNAMIC RANGE : 64 DB                       THRESHOLD : [illegible]
SAMPLING RATE :  4/SEC                   TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                 STANDBY TIME =   [illegible]:19

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = [illegible] / [illegible] HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = [illegible] DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                          DOSE
HOUR     CURRENT   CUMULATIVE        CURRENT   CUMULATIVE
   1       74.1       74.1           1.373       1.37
   2       79.3       77.2           2.839       4.21
   3       67.1       75.1            .522       4.73
   4       81.3       77.2           3.766       8.50
   5       74.7       76.8           1.506      10.01
   6       83.0       78.3           4.709      14.72
   7       77.8       79.2           2.289      17.00
   8       65.3       77.4            .406      17.41
MIN. COMP. =  60 DB                MAX. COMP. =  99 DB
ARITHMETIC MEAN =  68 DB
STD. DEVIATION =  11 DB
VARIANCE =121 DB
```

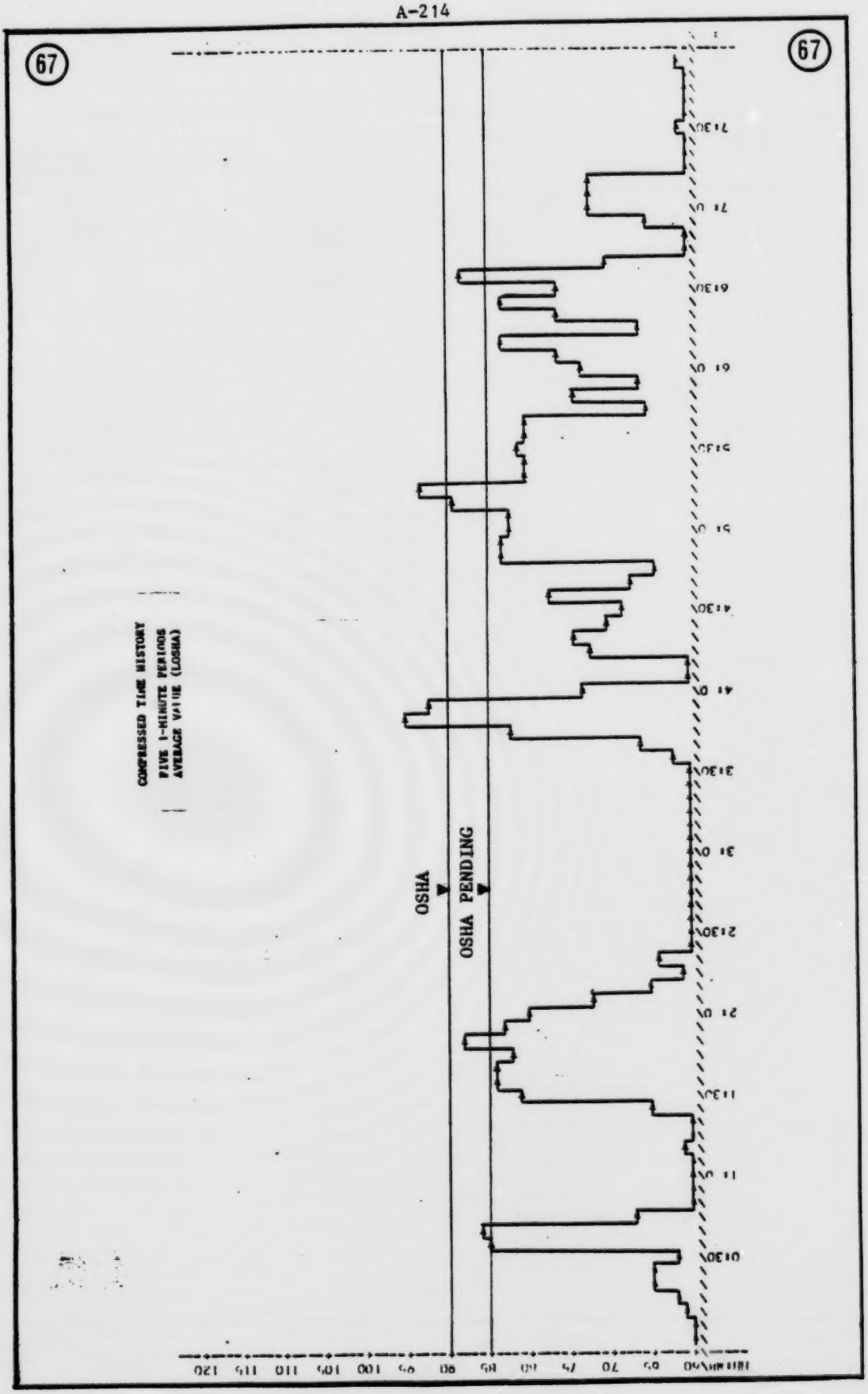
AMPLITUDE DISTRIBUTION

(67) (67)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
288	60.0	60 TO 64
19	4.0	65 TO 69
24	5.0	70 TO 74
23	4.8	75 TO 79
93	19.4	80 TO 84
15	3.1	85 TO 89
14	2.9	90 TO 94
4	.8	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




67
67
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
7:30
7: 0
6:30
6: 0
5:30
5: 0
4:30
4: 0
3:30
3: 0
2:30
2: 0
1:30
1: 0
0:30
120
115
110
105
100
95
90
85
80
75
70
65
60

68

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1218    60    64     4     1
    1708     115200  480
```

60	60	65	60	60	61	60	60	65	65	66	64	67	64	67	63
69	63	67	66	63	60	60	61	62	61	71	65	67	78	83	85
78	77	70	61	60	60	61	60	60	60	60	60	60	60	60	60
60	63	60	60	60	60	62	62	61	61	60	68	63	66	63	68
64	60	65	66	68	75	66	68	70	66	60	67	64	63	68	64
88	90	90	91	94	95	93	95	95	93	94	93	95	93	94	96
87	93	87	93	83	67	64	66	62	71	69	60	69	73	62	88
75	84	107	106	100	99	108	109	105	105	94	76	60	73	67	62
65	66	82	100	109	112	111	110	110	108	97	88	92	105	103	109
110	112	109	105	100	97	104	96	98	100	98	97	95	96	95	97
99	99	104	104	106	107	105	88	88	102	109	110	105	107	108	107
104	90	85	82	88	100	91	68	76	81	60	85	91	87	87	97
98	98	97	96	95	95	96	94	88	87	85	87	86	88	87	91
89	93	91	97	98	98	97	97	95	96	99	101	97	97	95	90
87	87	86	94	87	87	86	85	86	86	86	85	85	85	86	85
85	85	86	85	86	85	85	85	85	85	85	86	85	86	86	86
86	88	86	86	86	85	85	85	86	86	86	86	85	85	87	87
86	86	86	86	86	86	86	90	93	93	92	87	87	87	88	87
88	85	91	88	87	86	85	85	86	85	85	85	89	90	84	88
91	95	92	85	84	87	88	87	87	88	88	88	90	88	86	77
80	82	66	60	60	60	60	60	60	60	60	60	60	63	60	60
60	60	60	60	62	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	64	70	69	60	62
69	73	71	71	72	77	78	83	84	74	85	84	85	86	77	80
84	74	75	81	88	82	83	79	84	86	93	92	91	93	91	91
91	85	92	92	91	90	87	88	88	89	88	81	85	88	89	90
88	88	88	86	90	80	91	90	89	89	88	89	84	92	91	91
89	88	90	90	89	89	89	88	88	86	88	90	90	90	89	89
90	88	82	92	88	90	90	89	90	90	87	88	77	72	69	76
69	69	65	60	76	72	71	69	74	77	74	83	74	73	69	69

```
%EOF


ENTER LOG DATE (DD/MM/YR) : 14/09/79.
ENTER SITE CODE (5 CHARS) : 42953
ENTER USER CODE (4 CHARS) : 4687
 ENTER JOB CODE (3 CHARS) : 271


   DATA LOGGED :14 SEPT 1979          DATA ANALYZED : 27 SEPT 1979
        LOGGER : DB-301/24                 SITE CODE : 42953
SERIAL NUMBER : 1218                        JOB CODE : 271
      BASELINE : 60 DB                      USER CODE : 4687
DYNAMIC RANGE : 64 DB                     THRESHOLD : 80 DB
SAMPLING RATE : 4/SEC                  TOTAL SAMPLES =  1152[illegible]
TEST DURATION =  [illegible]           START/ TIME =  [illegible]

                TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
[illegible]
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LEQ(A                          DOSE
HOUR    CURRENT  CUMULATIVE          CURRENT  CUMULATIVE
   1      67.8      67.8              .572       .57
   2      92.6      87.8            17.924     18.50
   3     103.5      97.0            80.754     99.25
   4      92.5      96.1            17.762    117.01
   5      86.7      95.0             7.847    124.90
   6      80.3      93.9             3.267    128.17
   7      85.5      93.1             6.720    134.[illegible]
   8      86.5      92.6             7.735    142.62
MIN. COMP. =  60 DB                MAX. COMP. =  112 DB
ARITHMETIC MEAN =  81 DB
STD. DEVIATION =  14 DB
VARIANCE =196 DB
```

68

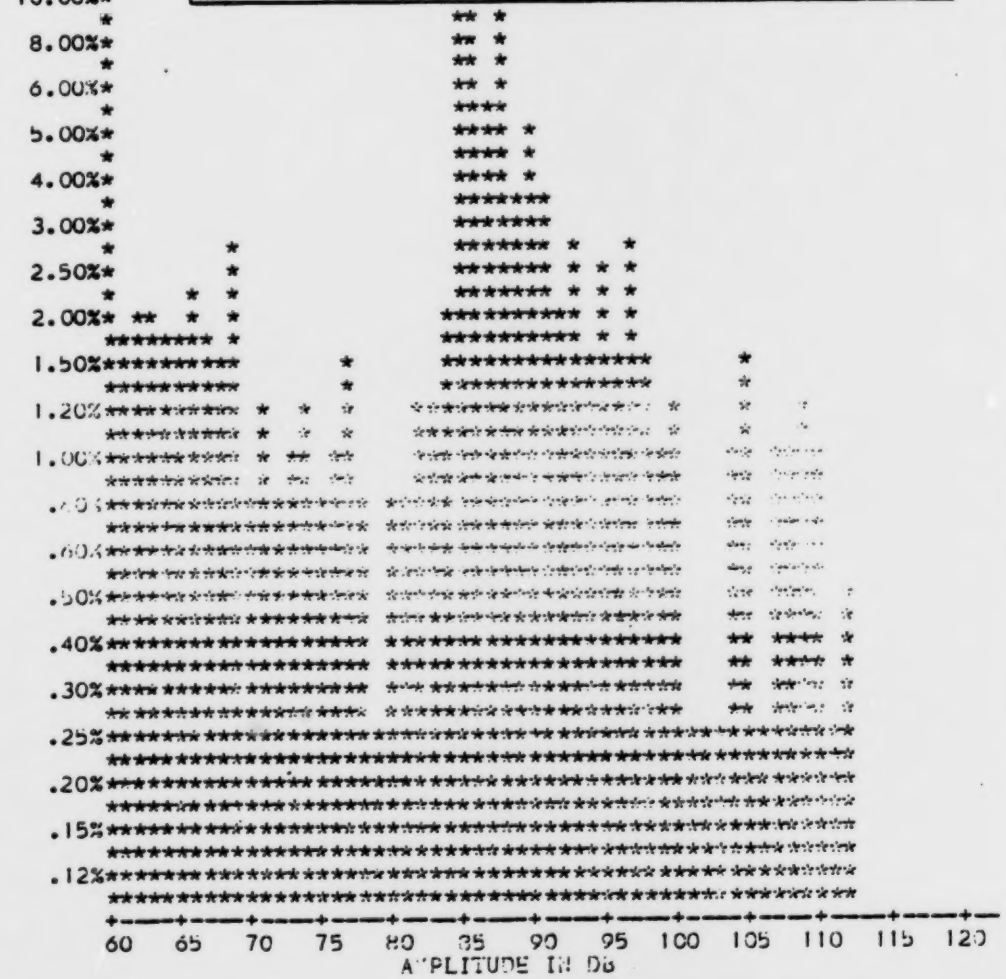
AMPLITUDE DISTRIBUTION

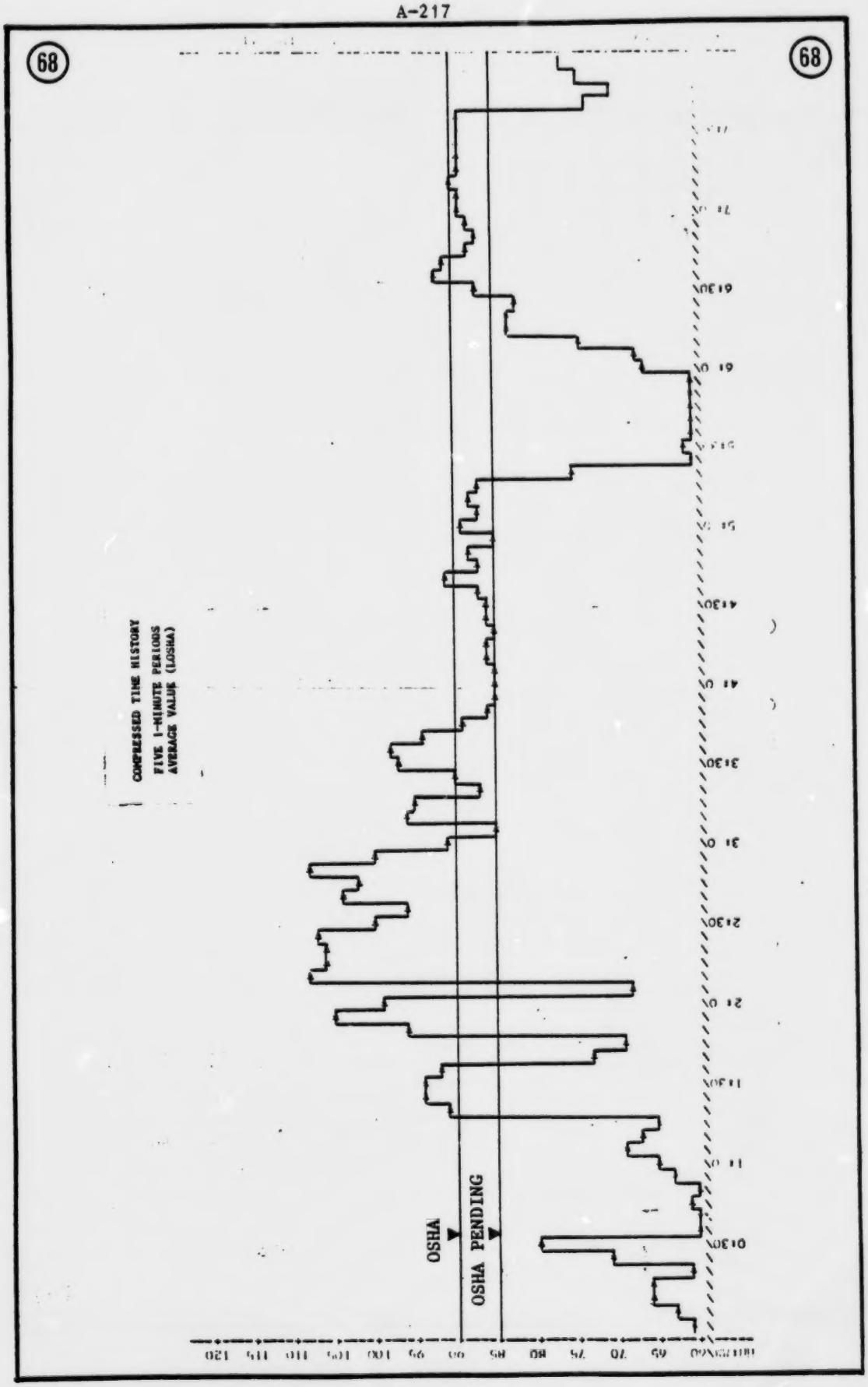
(68) (68)

FREQUENCY DISTRIBUTION

FREQUENCY		DB RANGE
NUMBER	PER CENT	
100	20.8	60 TO 64
40	8.3	65 TO 69
20	4.2	70 TO 74
17	3.5	75 TO 79
24	5.0	80 TO 84
142	29.6	85 TO 89
61	12.7	90 TO 94
37	7.7	95 TO 99
12	2.5	100 TO 104
20	4.2	105 TO 109
7	1.5	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




68
68
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:30
2:30
3:30
4:30
6:30
120
115
110
105
100
95
90
85
80
75
70
65
60

69 69

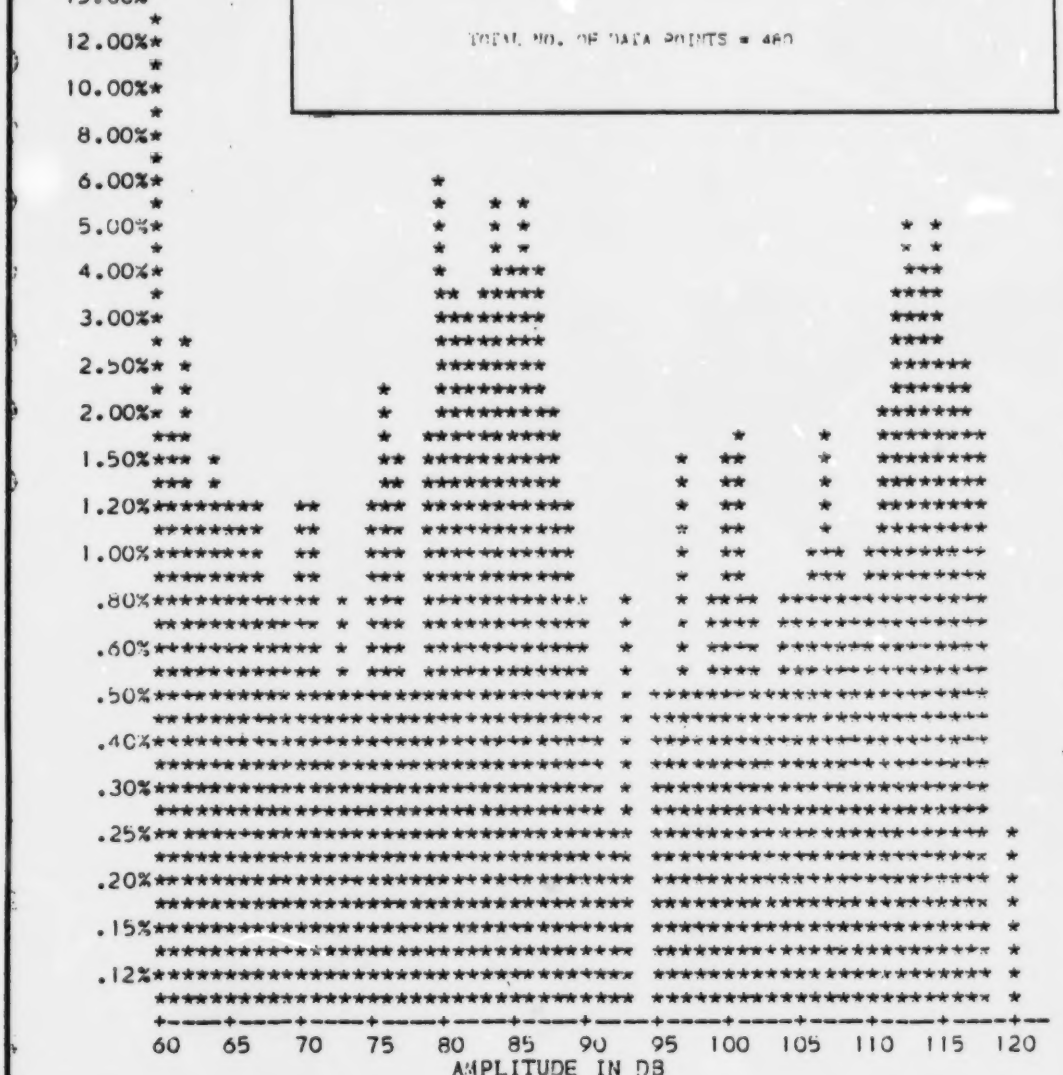
```
1  26  80  1214   60   64    4    1
   82     115200  480
60  60  60  60  60  63  62  60  64  60  60  64  66  67  60  60
60  60  60  70  62  70  71  67  77  68  75  67  60  61  63  65
64  60  62  60  63  60  60  60  71  60  60  62  62  60  60  61
60  60  61  60  63  76  76  76  85  86  66  79  86  86  87  76
80  87  83  60  74  60  60  75  76  76  76  75  79  82  80  82
80  80  79  86  89  82  86  87  81  75  65  62  61  60  60  75
61  70  68  80  77  87  88  86  88  86  84  80  86  85  86  88
79  65  70  72  86  87  91  89  87  86  83  73  69  71  69  82
87  86  86  87  85  83  84  87  96  97  87  84  84  85  83  78
74  79  82  97  105 102 112 111 115 112 102  83  82  84  76  83
86  84  84  84  83  83  84  84 112 111 113 111 110  86  85  93
100 86  86 103 114 107 115 113  98 100 112 112 113 115  96 108
107 116 110 115 104  97  88  99 106 115 112 113 112 106  85  88
101  91 113 113 116 113 100  87  86  85  86  93  92 100  95 112
113 114 114  89  93  97  97 113 111 115 113 111  85 101  85  82
80  80  80  85  83  81  80  67  65  79  80  80  80  80  80  80
80  80  80  77  62  62  73  77  81  80  82  88  82  80  80  78
80  82  82  84  84  83  83  85  81  80 113 113 116 112 114 109
84  90 100 104 117 113 116 107  84  98 115 112 118 113 109 112
117 115 120 106 102 117 115 112 117 101 116 115  79  97 107 114
114  99 112 111  89 113 115 114 110 116 114 114  87  87  87 114
107  95 113 115 115 116 116  84  84  83  85  85  84  88  86 101
117 111 113 114  87  86  85  85 101  99 107 105 113 115 117 115
107 115 114 117 114 109  90 117 115 118 111 108 100 113 118 114
114 101 118 112 115 113 106 117 118 114 104  87  83 101 105 118
116 108 116 110 108 118 117 115 113 103  84  84  86  86  84  84
85  84  82  81  81  81  81  81  81  81  71  64  66  61  60  62
64  60  83  67  61  60  60  60  62  60  60  60  60  60  65  63
68  73  81  60  81  86  90  89  72  81  71  77  66  60  62  69
66  77  76  60  60  60  60  60  60  60  60  70  60  60  60  64
%EOF


ENTER LOG DATE (DD/MM/YR) : 10/09

ENTER SITE CODE (5 CHARS) : LEAPO
ENTER USER CODE (4 CHARS) : 5543
 ENTER JOB CODE (3 CHARS) : 270


------ DATA LOGGED :10 SEPT 1900          DATA ANALYZED : 27 SEPT 1979
        LOGGER : DB-301/26                    SITE CODE : LEAPO
SERIAL NUMBER : 1214                          JOB CODE : 270
     BASELINE : 60 DB                         USER CODE : 5543
DYNAMIC RANGE : 64 DB                         THRESHOLD :  60 DB
SAMPLING RATE :  4/SEC                    TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                  STANDBY TIME =   8: 0:20

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100A DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOGMA                          DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      69.1      69.1          .686        .69
   2      82.2      78.3         4.241       4.93
   3     100.2      92.9        51.198      56.13
   4     108.1     100.8       167.541     223.67
   5     102.6     101.2        71.317     294.98
   6     111.0     104.0       230.141     525.12
   7     111.6     105.7       249.338     771.46
   8      74.6     104.8         1.481     775.94
MIN. COMP. =  60 DB              MAX. COMP. = 120 DB
ARITHMETIC MEAN =  87 DB
STD. DEVIATION =  19 DB
VARIANCE =361 DB
```

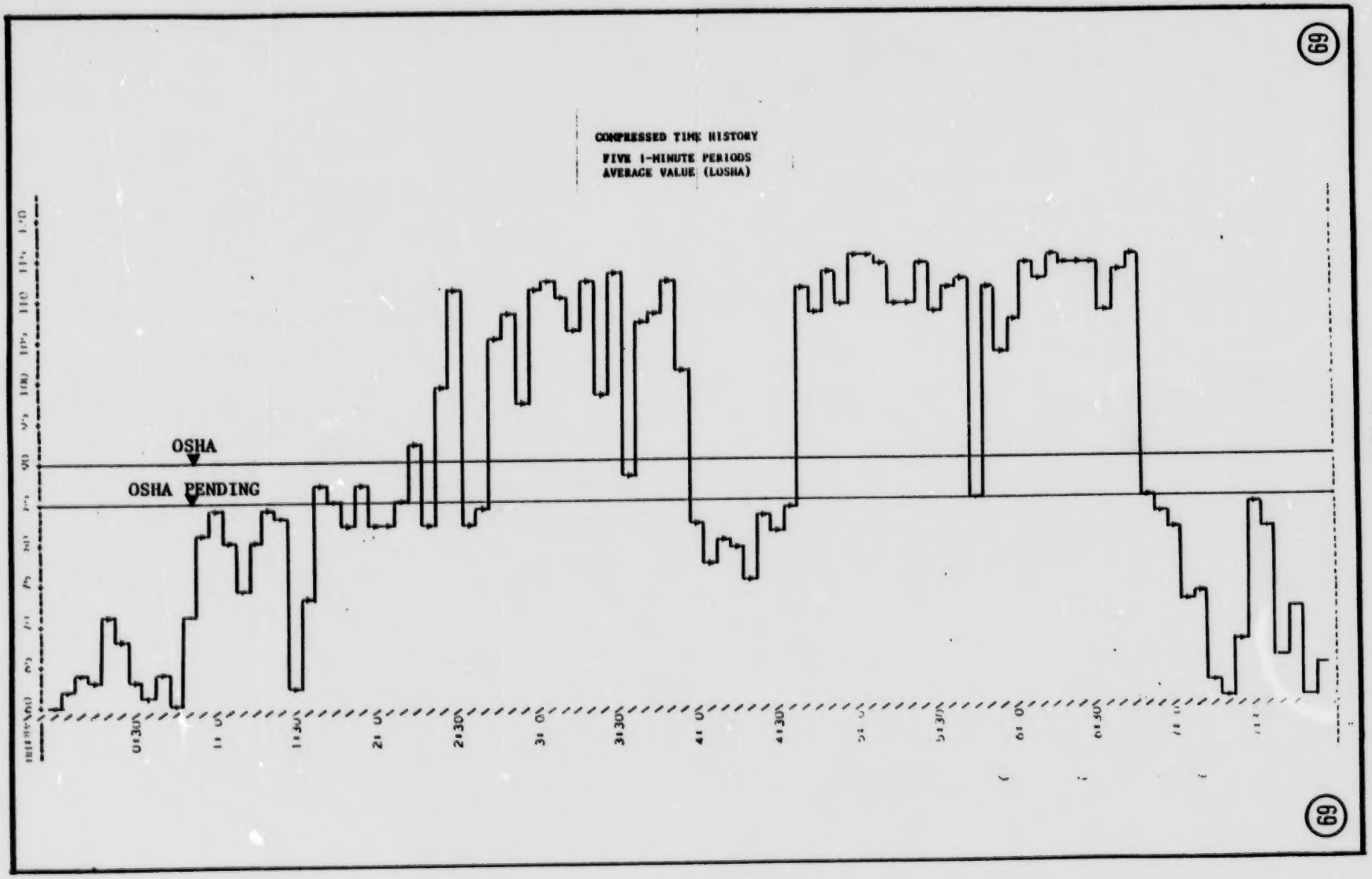
AMPLITUDE DISTRIBUTION

FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
83	17.3	60 TO 64
21	4.4	65 TO 69
17	3.5	70 TO 74
29	6.1	75 TO 79
86	18.0	80 TO 84
68	14.2	85 TO 89
9	1.9	90 TO 94
15	3.1	95 TO 99
21	4.4	100 TO 104
21	4.4	105 TO 109
63	13.2	110 TO 114
46	9.6	115 TO 119

TOTAL NO. OF DATA POINTS = 480




69
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
69

70

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1218   60   64    4    1
    3984    115200  480
  60  63  71  80  77  73  77  81  77  79  78  75  72  73  81  78
  78  69  78  74  72  75  71  79  76  80  78  79  77  81  80  74
  80  82  90  94  89  68  83  74  70  60  61  83  78  69  82  84
  85  85  84  83  83  83  83  83  84  84  85  85  86  85  85  84
  84  84  84  84  84  84  84  84  84  84  84  85  91  94  95  92
  92  95  96  94  95  91  89  84  83  83  81  82  82  82  83  85
  96 101  98  85 111 110 111 109  97 105 114 112 111 111  86  97
  84  96 100  85  83  94 108 110 102 111 112 112 110 109  99  89
  88  83  83  81  82  82  82  81  82  82  82  85  85 103 113 108
 113 110  99 113 110  84 110 112 109  88  84  82  85  82  86  86
  82  82  82  90  87  82  83  84  85  90  84  86  95 103  76  84
  94  95  97  92  96  94  94 103 109 110  96 113 106  99  90  98
 112 112  86  87  96  97  91  93  91  95  92  97  84  78  83  89
  99  93  93  89  92  93  86  85  86  85  85  85  86  84  97  86
  86  98  82  84 102  86  86  86  86 101 100  86  88  81  84  84
  83  96  85  84  84  84  84  84  84  84  84  84  84  84  84  84
  84  84  84  84  84  84  84  83  84  84  85  86  86  85  85  85
  84  83  83  84  85  84  83  84  84  83  84  85  87  86  84  94
  91 109 110 108 110 107  94 109 109  94  83  87 104 104  86  96
  87  87 106 108 102 114 109 114 105  83  96 108 114 112 110  98
  92 107 115 113 111  92  92 114 115 113 111  96 111 115 113 114
  98 111 114 112 113  96 113 113 112 105  86  84  86  82  71  67
  71  79  87  85  83  82  86  85  85  85  83  82  82  82  82  87
  85  82  81  79  78  83  81  82  82  81  92  83  84  84  83  82
  90  80  79  71  72  70  65  62  66  83  85  87  84  83  89 100
  98  99  90  80  75  83  85  88  82  82  81  85  86  84  89  89
  82  82  84  89  71  78  76  78  86  80  82  70  67  76  76  83
  82  81  86  78  87  81  74  81  70  60  74  77  68  74  76  74
  74  71  85  90  92  84  76  69  60  60  63  60  60  62  60  62
  60  60  60  60  60  60  60  60  60  60  60  61  60  60  60  60
%EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 11/09/79.
ENTER SITE CODE (5 CHARS) : LEAPO

ENTER USER CODE (4 CHARS) : 8397
 ENTER JOB CODE (3 CHARS) : 271
```

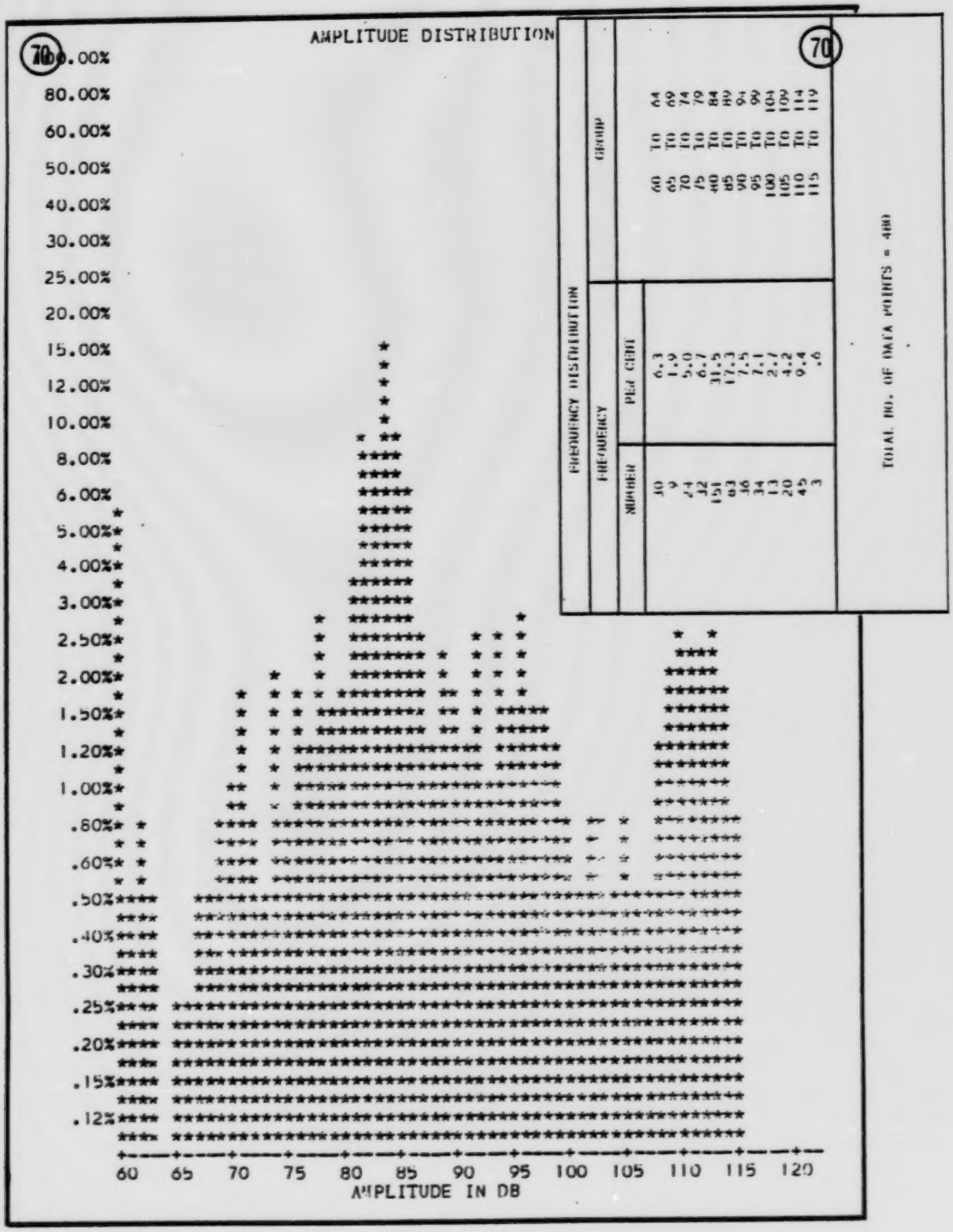
```
   DATA LOGGED :11 SEPT 1979          DATA ANALYZED : 27 SEPT 1979
        LOGGER : DB-301/26                 SITE CODE : LEAPO
SERIAL NUMBER : 1218                        JOB CODE : 271
      BASELINE : 60 DB                      USER CODE : 8397
DYNAMIC RANGE : 64 DB                      THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0:16:36
```

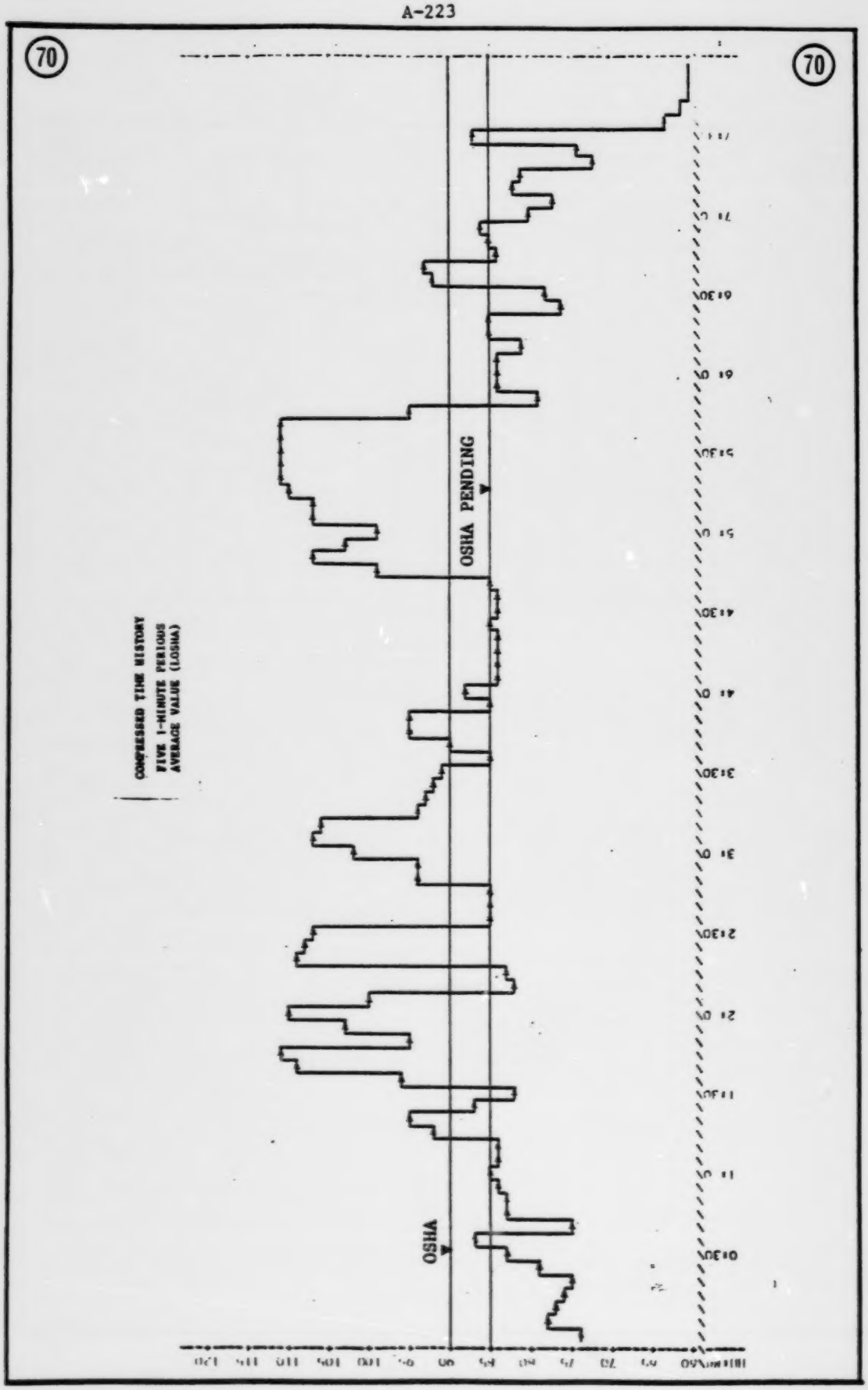
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 9 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	80.7	80.7	3.434	3.43
2	100.1	95.5	50.501	53.94
3	101.8	98.3	64.472	118.41
4	98.1	98.3	38.685	157.09
5	95.4	97.8	26.449	183.54
6	107.5	100.6	141.955	325.50
7	86.0	99.6	7.179	332.67
8	77.1	98.7	2.090	334.76

MIN. COMP. = 60 DB MAX. COMP. = 115 DB
ARITHMETIC MEAN = 86 DB
STD. DEVIATION = 13 DB
VARIANCE =169 DB


AMPLITUDE DISTRIBUTION
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB
FREQUENCY DISTRIBUTION
GROUP
FREQUENCY
NUMBER
PER CENT
60 TO 64 30 6.3
65 TO 69 9 1.9
70 TO 74 24 5.0
75 TO 79 32 6.7
80 TO 84 151 31.5
85 TO 89 83 17.3
90 TO 94 36 7.5
95 TO 99 34 7.1
100 TO 104 13 2.7
105 TO 109 20 4.2
110 TO 114 45 9.4
115 TO 119 3 .6
TOTAL NO. OF DATA POINTS = 480


70
70
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(71)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1225   60   64    4    1
     216     115200  480
 61  60  60  60  60  60  60  60  60  61  60  60  63  60  70
 60  65  60  60  61  60  68  60  62  67  65  70  60  60  62  81
 83  82  82  95  86  86  86  85  85  87  84  87  97 101  93  97
 93  86  84  89  92  91  79  88  94  90  88  89  93  96  91  94
 66  75  72  64  64  70  67  68  60  60  58  61  62  65  71  62
 78  74  73  75  73  77  74  75  74  62  60  60  64  60  60  60
 60  61  60  60  60  60  70  85  76  60  61  81  78  78  76  64
 68  60  61  60  68  80  81  74  74  80  69  69  68  75  75  64
 60  75  85  61  61  63  77  81  60  60  63  60  60  62  60  60
 60  69  62  65  69  63  63  73  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  64  66  60  60  60  60  60  60  60  61
 60  60  60  60  60  60  60  76  69  60  60  72  61  77  77  73
 73  82  90  90  78  73  69  61  61  60  60  86  93  98  91  89
 95  96  95  86  80  71  60  72  81  82  85  66  83  91  92  92
 91  91  91  92  92  93  90  92  92  89  92  93  84  72  60  60
 68  60  85  90  90  91  88  89  93  91  92  90  84  72  93  86
 73  60  60  60  60  70  61  60  61  60  62  61  60  60  65  60
 60  61  60  63  60  62  60  61  60  60  64  66  65  60  61  65
 74  72  60  64  73  66  74  71  69  61  75  79  70  60  60  85
 73  60  60  60  82  74  79  72  71  67  63  82  64  60  60  60
 60  60  60  60  60  60  60  60  60  66  69  60  60  62  60  60
 60  60  60  62  63  81  80  73  60  72  73  60  60  60  60  60
 60  60  60  62  60  86  83  76  89  90  89  90  89  89  90  91
 90  90  92  93  90  84  60  61  62  60  60  60  60  60  60  60
 61  70  75  77  84  92  90  93  92  92  91  92  92  90  89  90
 90  90  89  91  90  90  89  85  80  79  66  78  64  60  60  62
 68  60  63  86  87  77  60  72  66  69  62  61  68  74  74  69
 75  68  73  73  72  74  62  65  72  84  89  90  86  70  60  67
 60  60  60  69  70  66  67  76  71  72  61  77  69  75  87  74
 62  60  78  85  73  60  60  60  60  60  60  85  91  87  79  87
%EOF
```

(71)

```
ENTER LOG DATE (DD/MM/YR) : 17/08/79
ENTER SITE CODE (5 CHARS) : ISHAF
ENTER USER CODE (4 CHARS) : 4793
 ENTER JOB CODE (3 CHARS) : 270
```

```
   DATA LOGGED :17  AUG 1979          DATA ANALYZED : 25 SEPT 1979
        LOGGER : DB-301/26                SITE CODE : ISHAF
SERIAL NUMBER : 1225                       JOB CODE : 270
      BASELINE : 60 DB                    USER CODE : 4793
 DYNAMIC RANGE : 64 DB                   THRESHOLD :  80 DB
 SAMPLING RATE :  4/SEC             TOTAL SAMPLES =  115200
 TEST DURATION =   8: 0: 0           STANDBY TIME =   0: 0:54
```

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

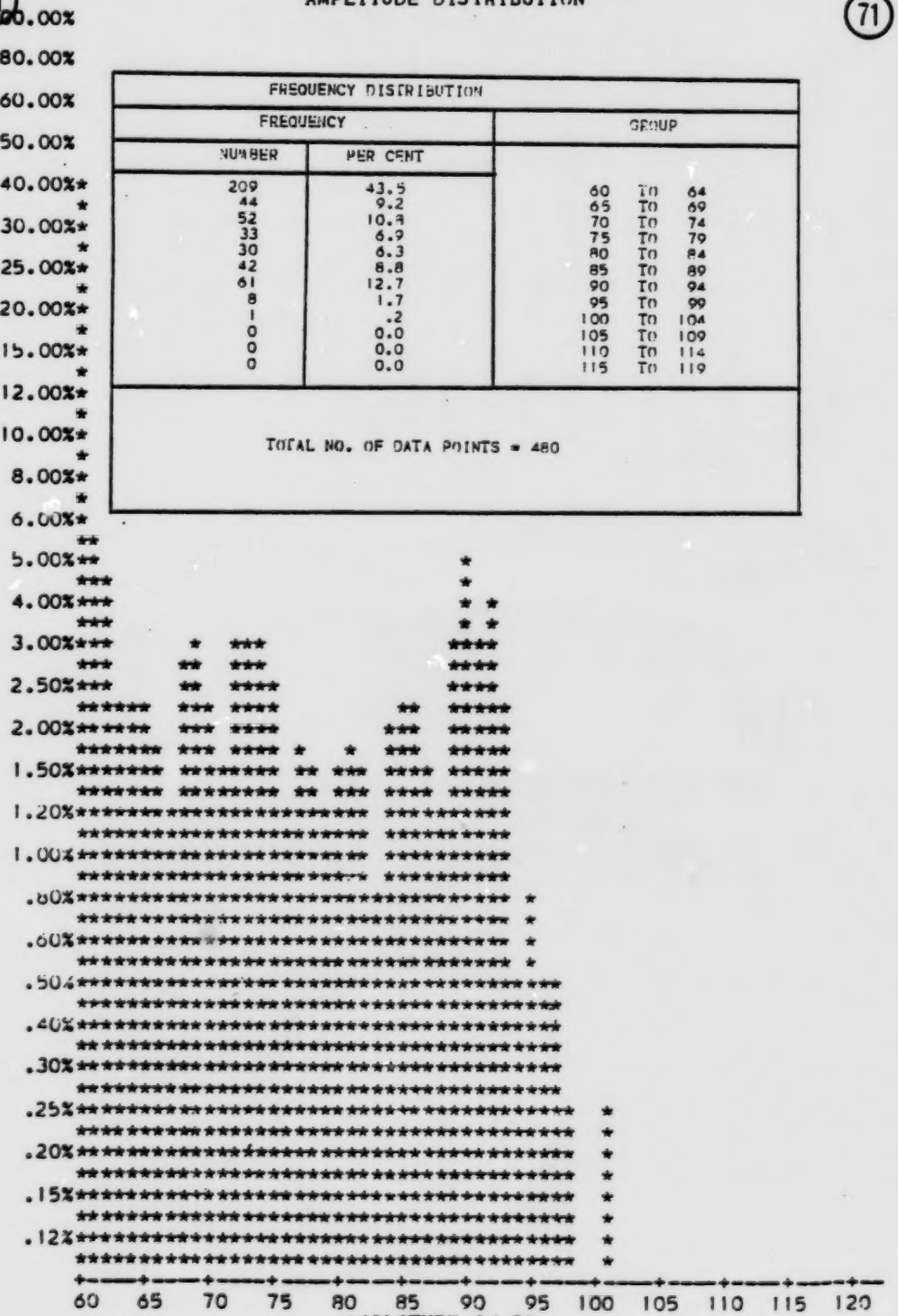
TIME	OSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	85.3	85.3	6.516	6.52
2	78.4	82.7	2.518	9.03
3	68.1	80.2	.598	9.63
4	86.9	82.5	8.099	17.73
5	79.8	82.1	3.048	20.78
6	71.3	81.1	.933	21.71
7	86.5	82.1	7.672	29.38
8	77.6	81.7	2.256	31.64

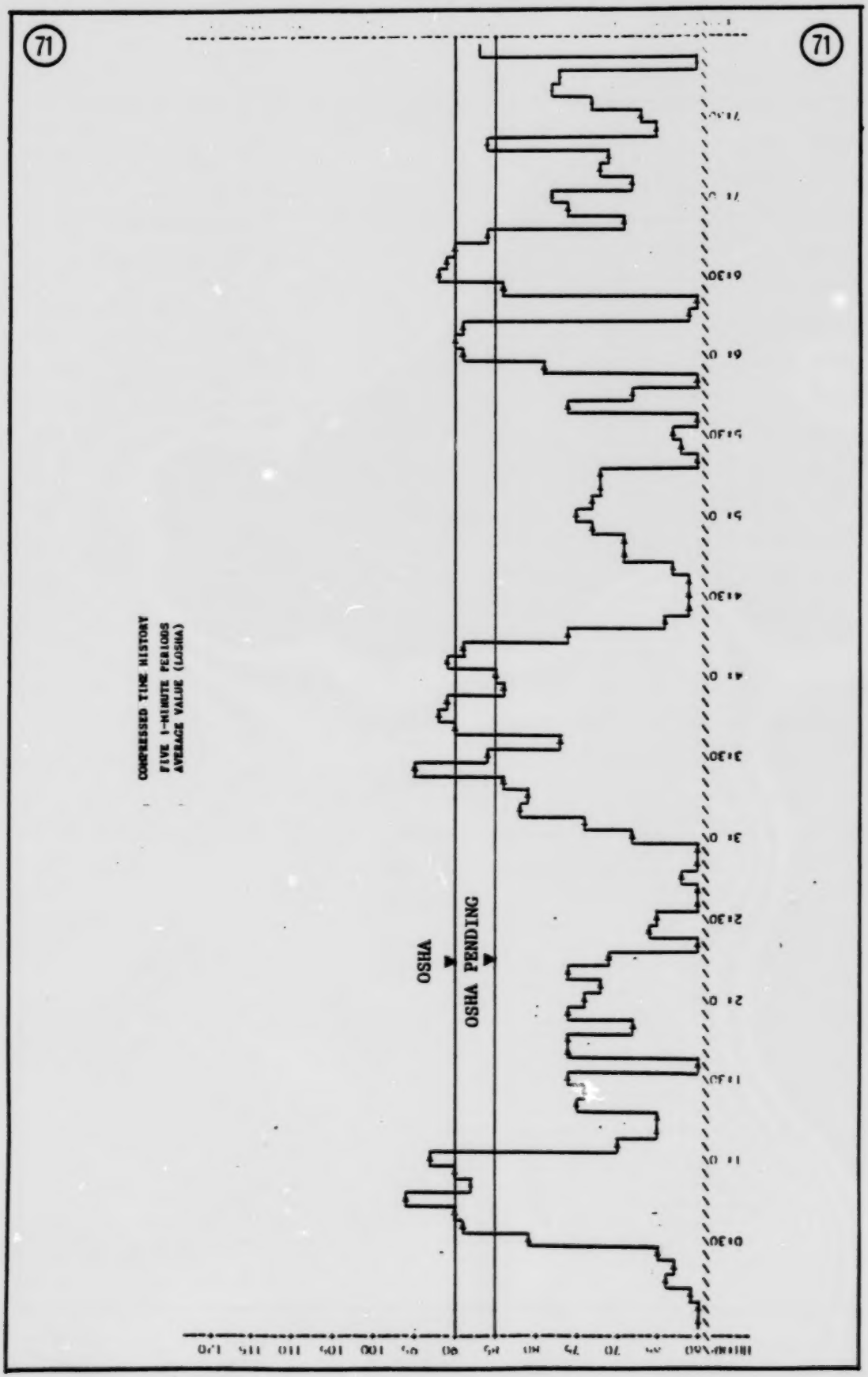
MIN. COMP. = 60 DB MAX. COMP. = 101 DB
ARITHMETIC MEAN = 71 DB
STD. DEVIATION = 12 DB
VARIANCE =144 DB

71 AMPLITUDE DISTRIBUTION 71

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
209	43.5	60 TO 64
44	9.2	65 TO 69
52	10.8	70 TO 74
33	6.9	75 TO 79
30	6.3	80 TO 84
42	8.8	85 TO 89
61	12.7	90 TO 94
8	1.7	95 TO 99
1	.2	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

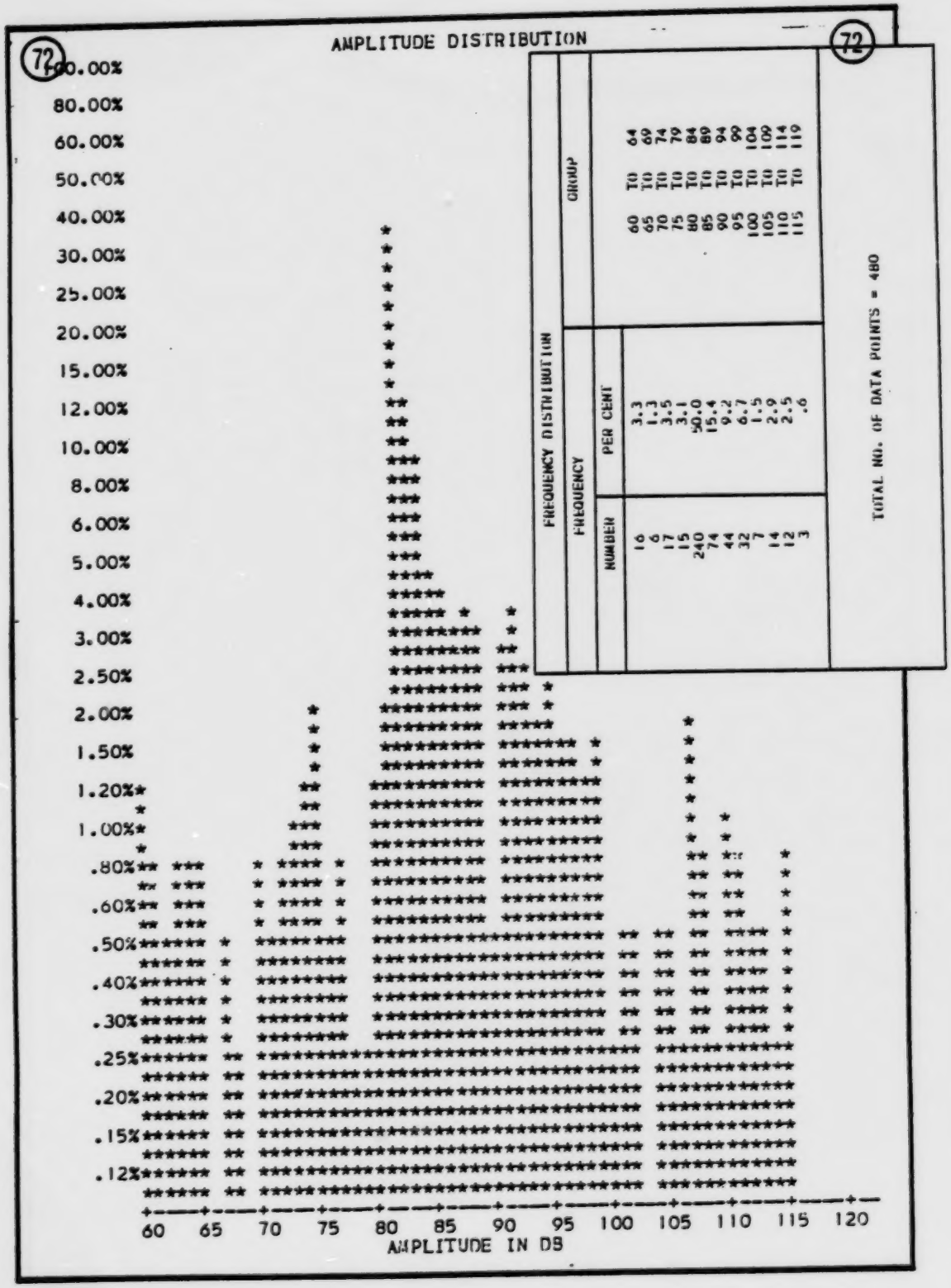
TOTAL NO. OF DATA POINTS = 480

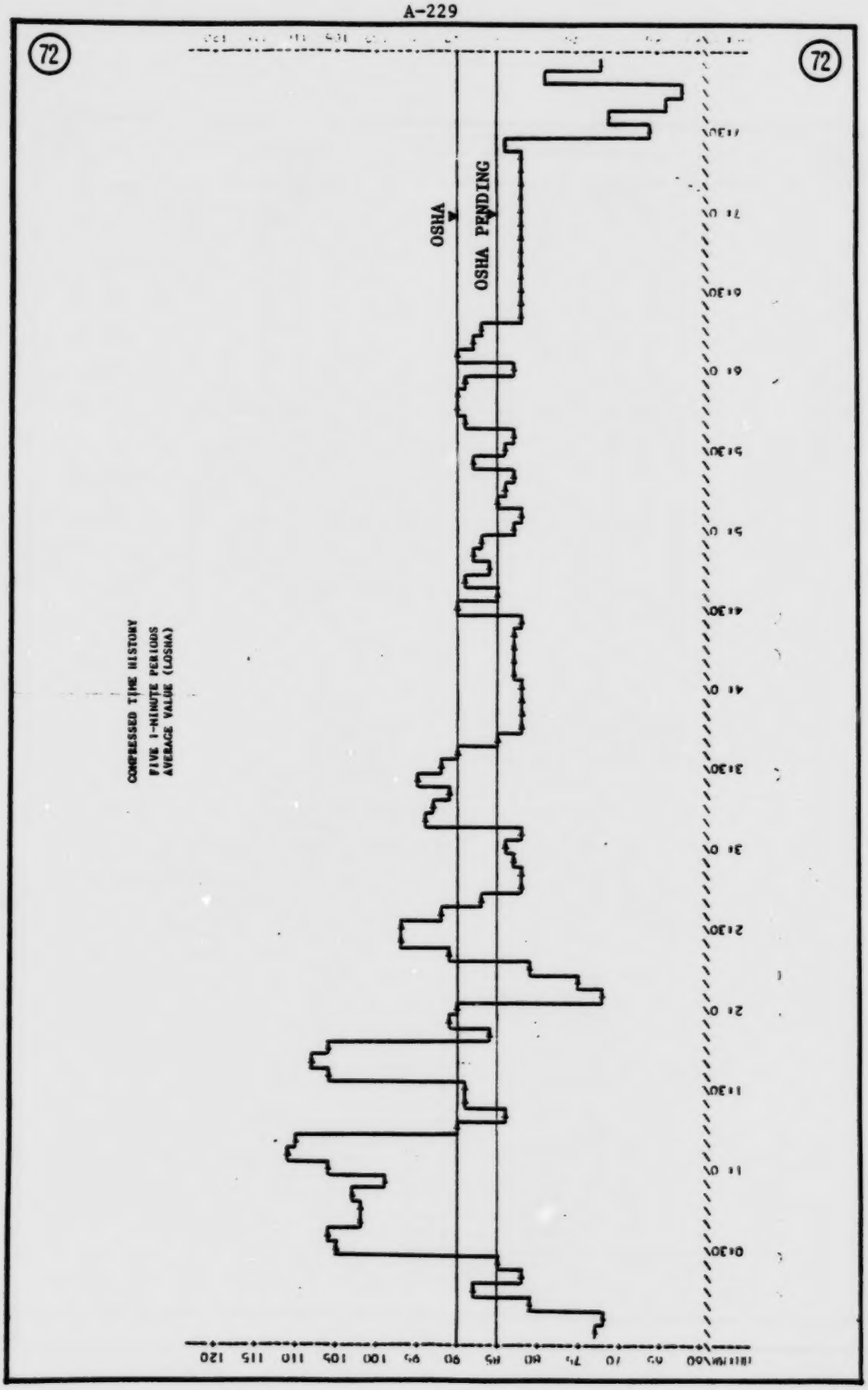



71
71
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
7:0
7:30

(72) (72)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1213   60   64    4    1
     210    115200  480
  67  70  77  73  73  73  68  72  71  75  80  74  82  84  83  91
  94  80  78  83  82  81  81  82  82  85  87  83  84  83  99  95
 110 110  94 101 108 107  96 110  93 104  86 102 109 106  98 104
 105  85  86  89 107 111  87  87  93  95  98 107  88 108 107  92
 111 108 107 115  92 115  96 114 113 112  86  92  87  95  87  83
  84  85  86  81  80  85  97  83  85  84  91  91  89  85  86  86
  89 111 110 107 112  90 100 107 113 115  89  89 105  94  81  82
  84  86  92  84  92  95  86  94  91  88  85  93  92  67  65  75
  74  74  75  75  75  74  76  80  83  84  81  73  76  86  93  99
  84  91  98  99 101  92  97  97  99  97  96  96  99  83  82  82
  84  94  83  83  82  82  82  82  82  83  82  82  82  82  82  84
  82  82  82  84  83  83  83  86  84  83  83  82  82  82  84  95
 102  84  82  91  99  93  89  89  95  84  97  85  83  97  93  91
  98  92  92  91  98  85  88  84  94  95  82  86  88  87  85  82
  82  82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
  82  82  82  82  82  83  83  83  83  83  83  83  83  83  83  83
  83  84  83  82  83  85  82  84  82  82  82  82  83  82  96  89
  83  85  88  88  85  83  83  83  93  92  87  84  84  84  89  85
  87  85  85  86  88  94  83  84  84  92  88  84  84  83  82  82
  82  82  82  82  82  82  82  82  88  85  84  84  88  83  82  82
  82  82  83  84  85  88  92  83  88  86  87  84  82  82  83  86
  83  82  82  82  84  82  83  95  90  82  89  92  93  88  82  86
  87  89  96  92  88  93  82  82  82  86  82  82  82  82  93  95
  84  84  89  84  89  91  82  87  87  91  87  82  82  82  82  82
  83  82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
  82  82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
  82  82  83  82  83  82  82  82  81  82  81  81  82  82  82  82
  82  82  82  82  82  83  82  82  82  82  82  82  82  82  82  74
  91  75  64  65  71  63  61  61  63  72  77  72  60  70  60  60
  65  61  60  62  64  60  62  75  80  84  79  77  75  70  63  64
%EOF


ENTER LOG DATE (DD/MM/YR) : 26/07/79
ENTER SITE CODE (5 CHARS) : 2GARA
ENTER USER CODE (4 CHARS) : 4714
 ENTER JOB CODE (3 CHARS) : 274


   DATA LOGGED :26 JULY 1979          DATA ANALYZED : 19 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : 2GARA
SERIAL NUMBER : 1213                         JOB CODE : 274
      BASELINE : 60 DB                      USER CODE : 4714
DYNAMIC RANGE : 64 DB                       THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 0:52

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                      %DOSE
HOUR     CURRENT  CUMULATIVE       CURRENT  CUMULATIVE
   1       98.7      98.7          41.574     41.57
   2      103.4     101.4          79.748    121.32
   3       89.6      99.1          11.759    133.08
   4       89.4      97.7          11.507    144.59
   5       85.7      96.4           6.850    151.44
   6       86.3      95.4           7.458    158.90
   7       84.2      94.6           5.628    164.52
   8       78.7      93.7           2.603    167.13
MIN. COMP. =  60 DB              MAX. COMP. = 115 DB
ARITHMETIC MEAN =  85 DB
STD. DEVIATION =  10 DB
VARIANCE =100 DB
```


AMPLITUDE DISTRIBUTION
72
72
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB
FREQUENCY DISTRIBUTION
GROUP
FREQUENCY
NUMBER
PER CENT
60 TO 64 16 3.3
65 TO 69 6 1.3
70 TO 74 17 3.5
75 TO 79 15 3.1
80 TO 84 240 50.0
85 TO 89 74 15.4
90 TO 94 44 9.2
95 TO 99 32 6.7
100 TO 104 7 1.5
105 TO 109 14 2.9
110 TO 114 12 2.5
115 TO 119 3 .6
TOTAL NO. OF DATA POINTS = 480


72
72
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
120
115
110
105
100
95
90
85
80
75
70
65
60
0130
1
1130
2
2130
3
3130
4
4130
5
5130
6
6130
7
7130

(73)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

(73)

```
  1  26  80  1220*  60   64    4    1
      28      115200  4H0
 60  60  62  60  60  60  64  67  60  61  79  67  73  84  88  89
 93  96  87  89  78  87  80  87  88  85  94  94  90  95  94  96
 93  75  79  64  60  62  72  66  75  73  72  61  67  64  62  62
 66  72  60  63  70  66  63  72  69  69  69  60  63  60  66  61
 68  74  74  64  60  80  85  71  61  69  66  74  71  62  60  64
*68  60  69  71  72  70  77  74  72  76  63  60  65  78  83  83
100 101  97  82  85 101 102 102 102 102  98  78  60  68  72  84
101 101 101 101 101 100  86  77  87  86  88  85  62  73  89  67
 71  73  67  75  65  64  67  70  62  60  77  75  69  74  72  70
 67  70  73  70  65  62  73  61  69  75  78  73  60  60  61  68
 80  64  67  74  73  65  66  70  64  63  72  72  79  78  79  70
 77  77  77  67  75  71  75  76  85  77  92 100  99 101 101  96
 81  81  73  82 101  96  72  76  80  82 100  94  82  86  86  87
 87  87  87  84  81  94 100 100 101 101 101 100 100  88  80  71
 76  72  84  93  99 100 100  91  96  96  97  64  71  73  71  80
 82  79  74  75  76  79  82  76  83  77  70  75  83  79  69  85
 72  70  78  78  76  76  82  70  74  78  80  74  82  79  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  61  69  71  77  80  74  79  81  73  75  96 102 101
 81  61  74  76  77  82  81  60  60  68  63  79  61  64  67  75
 65  60  61  69  73  61  67  66  74  71  62  82  86  80  64  95
 99 100 101 101 101 101 102 102 101 101 101 101 101 101  89  73
 87  66  77  74  61  72  67  67  74  96  96  80  87  67  70  81
 66  80  70  77  68  73  72  71  74  70  78  77  79  78  73  80
 80  80  76  73  71  78  68  72  74  76  73  75  71  60  75 101
101 101 101 101 102 102 100 100 100  98  65  75  80  72  71  71
 70  72  73  74  66  70  66  67  64  88 101 101 104 102 102 102
102 101 102 101 101  79  60  60  65  81  70  74  83  75  84  76
 81  78  81  83  80  74  74  81  77  69  76  75  70  69  60  60
 64  60  83  73  73  77  77  86  80  74  79  82  74  88  93  93
*EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 30/07/79
ENTER SITE CODE (5 CHARS) : SHAFT
ENTER USER CODE (4 CHARS) : 4624
 ENTER JOB CODE (3 CHARS) : 272
```

```
   DATA LOGGED :30 JULY 1979          DATA ANALYZED : 20 SEPT 1979
      LOGGER : DB-301/26                 SITE CODE : SHAFT
SERIAL NUMBER : 1220                      JOB CODE : 272
    BASELINE : 60 DB                     USER CODE : 4624
DYNAMIC RANGE : 64 DB                    THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0: 7
```

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	83.5	83.5	5.106	5.11
2	91.4	88.5	15.148	20.25
3	75.2	86.1	1.609	21.86
4	93.4	88.7	19.971	41.83
5	75.0	87.4	1.563	43.40
6	92.5	88.5	17.621	61.02
7	89.9	88.7	12.385	73.40
8	90.9	89.0	14.159	87.56

MIN. COMP. = 60 DB MAX. COMP. = 104 DB
ARITHMETIC MEAN = 77 DB
STD. DEVIATION = 13 DB
VARIANCE =169 DB

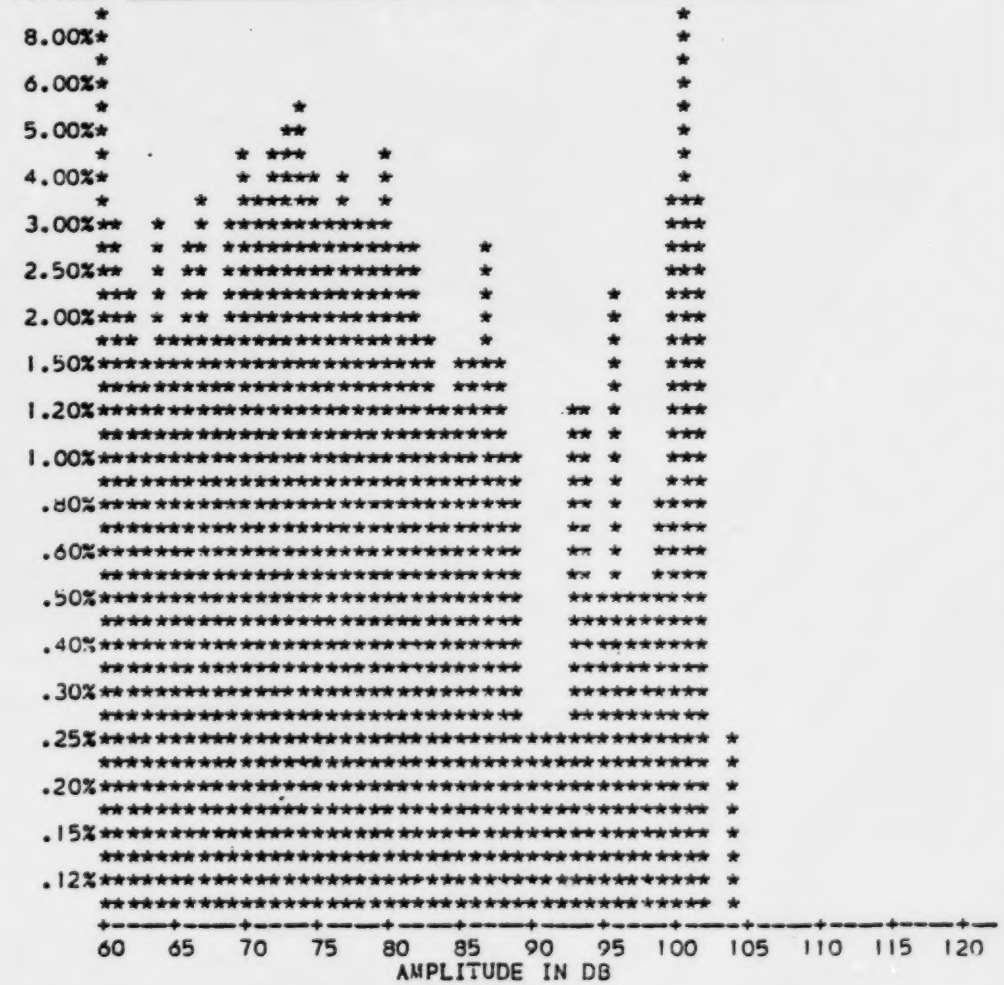
AMPLITUDE DISTRIBUTION

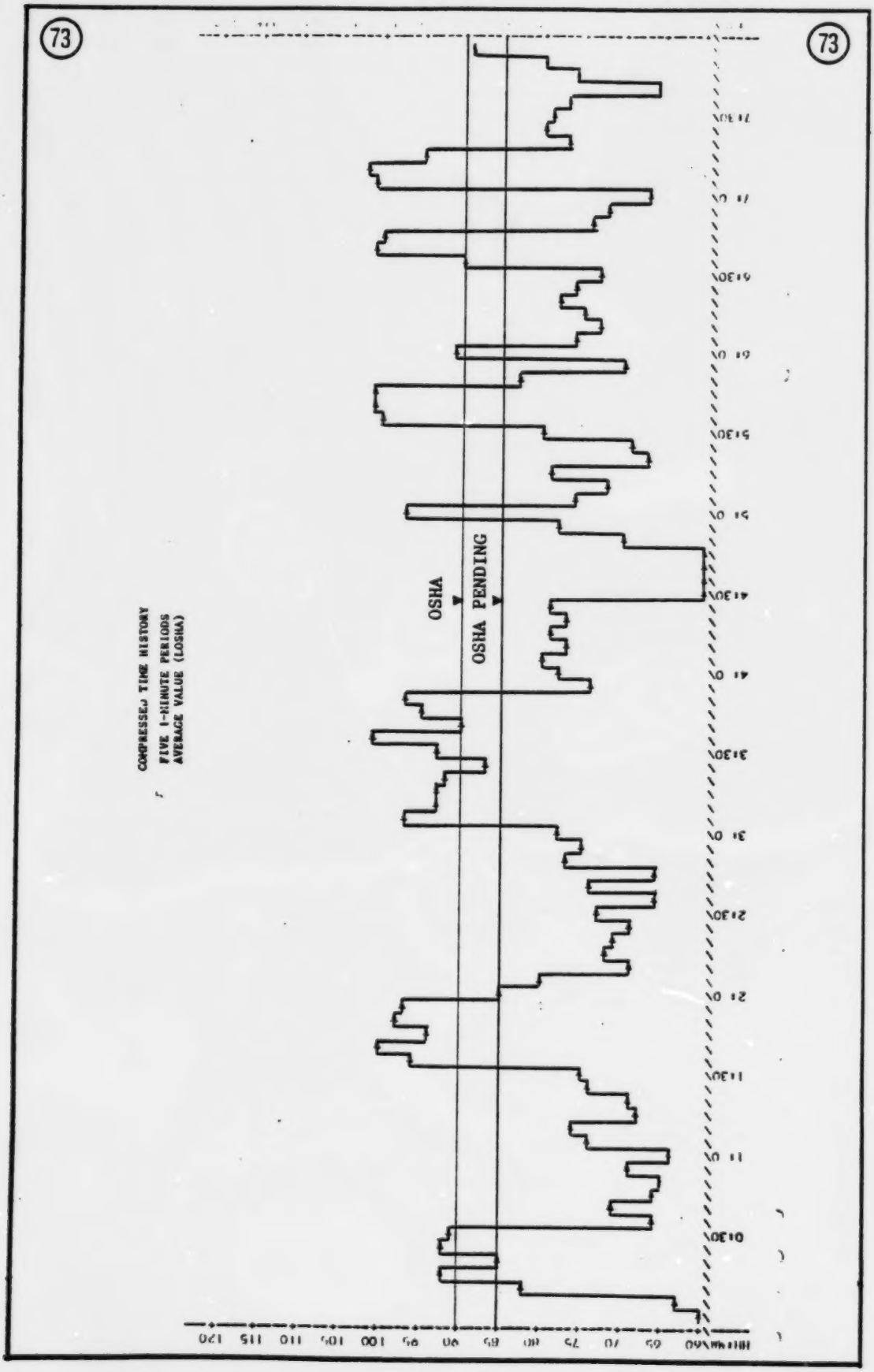
(73) (73)

FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
88	18.3	60 TO 64
51	10.6	65 TO 69
93	19.4	70 TO 74
70	14.6	75 TO 79
51	10.6	80 TO 84
33	6.9	85 TO 89
13	2.7	90 TO 94
18	3.8	95 TO 99
63	13.1	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




73
73
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
BEATS/MIN
60
65
70
75
80
85
90
95
100
105
110
115
120
0:30
1:00
1:30
2:00
2:30
3:00
3:30
4:00
4:30
5:00
5:30
6:00
6:30
7:00
7:30

(74) (74)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1216 60 64 4 1
129 115200 480

60	60	60	60	63	60	60	60	61	60	60	60	66	61	62	61
60	60	60	60	60	60	63	61	62	65	66	67	60	60	68	71
67	67	60	61	65	63	61	60	60	61	60	60	71	67	71	85
84	61	89	80	60	60	85	65	60	60	60	73	68	74	60	64
63	61	72	60	60	63	75	76	75	67	62	69	66	83	60	64
75	83	82	87	84	85	88	92	92	84	85	86	86	77	60	60
60	60	60	60	60	62	67	60	60	60	60	60	60	60	60	60
60	60	60	62	60	60	60	60	60	87	93	89	94	95	103	99
95	99	96	92	102	105	103	95	97	93	85	92	96	97	95	94
84	81	60	60	63	60	60	61	94	98	100	100	100	103	99	94
98	99	100	99	100	97	104	102	98	99	103	102	107	110	105	103
99	98	108	108	111	106	106	96	99	99	99	97	95	97	98	95
101	95	94	99	97	96	100	100	104	99	105	102	105	104	106	99
106	102	105	104	98	100	104	100	100	100	95	94	96	106	97	102
99	100	96	97	101	104	99	102	108	103	100	102	100	99	100	96
95	97	101	99	94	103	102	93	88	87	65	80	96	97	102	103
99	103	101	101	99	102	102	102	100	104	102	95	106	105	102	102
103	100	104	100	103	98	97	97	98	106	99	96	100	102	99	95
91	95	96	92	89	60	60	60	85	60	60	60	74	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	78	90	99	102
104	101	107	105	107	107	106	99	101	102	95	95	96	101	99	96
101	100	97	84	60	60	89	97	101	97	106	100	105	106	101	94
85	86	97	100	105	104	98	97	100	77	66	80	60	86	97	98
104	102	102	100	105	102	106	100	98	93	88	95	94	101	100	104
106	95	66	60	60	71	95	95	98	102	96	98	82	60	60	60
79	94	97	96	99	102	96	101	98	99	88	90	100	99	104	96
106	102	106	107	107	106	104	108	103	102	98	100	107	100	101	109
105	110	109	109	104	97	101	97	99	99	99	97	97	96	92	100
94	98	99	101	106	108	106	100	99	99	100	96	60	89	92	91
90	80	91	75	60	62	60	60	60	60	60	70	83	86	76	87

ENTER LOG DATE (DD/MM/YR) : 22/08/79
ENTER SITE CODE (5 CHARS) : 29950
ENTER USER CODE (4 CHARS) : 4640
ENTER JOB CODE (3 CHARS) : 273

DATA LOGGED :22 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1216
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 25 SEPT 1979
SITE CODE : 29950
JOB CODE : 273
USER CODE : 4640
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 8: 0:22

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSHA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	70.4	70.4	.820	.82
2	77.4	74.7	2.167	2.99
3	99.1	91.7	44.258	47.25
4	101.5	95.6	61.593	108.84
5	98.9	96.4	42.858	151.70
6	98.2	96.7	39.217	190.91
7	98.5	97.0	40.505	231.42
8	100.3	97.5	52.240	283.66

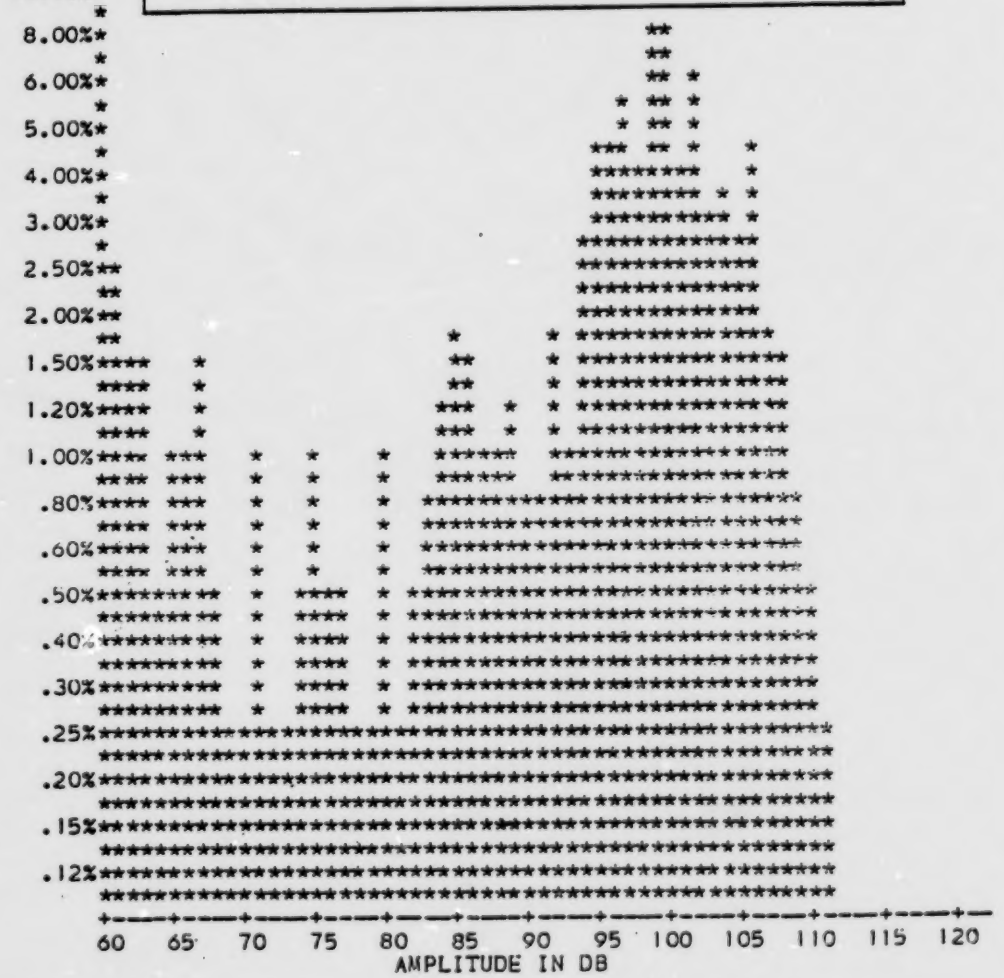
MIN. COMP. = 60 DB MAX. COMP. = 111 DB
ARITHMETIC MEAN = 86 DB
STD. DEVIATION = 18 DB
VARIANCE =324 DB

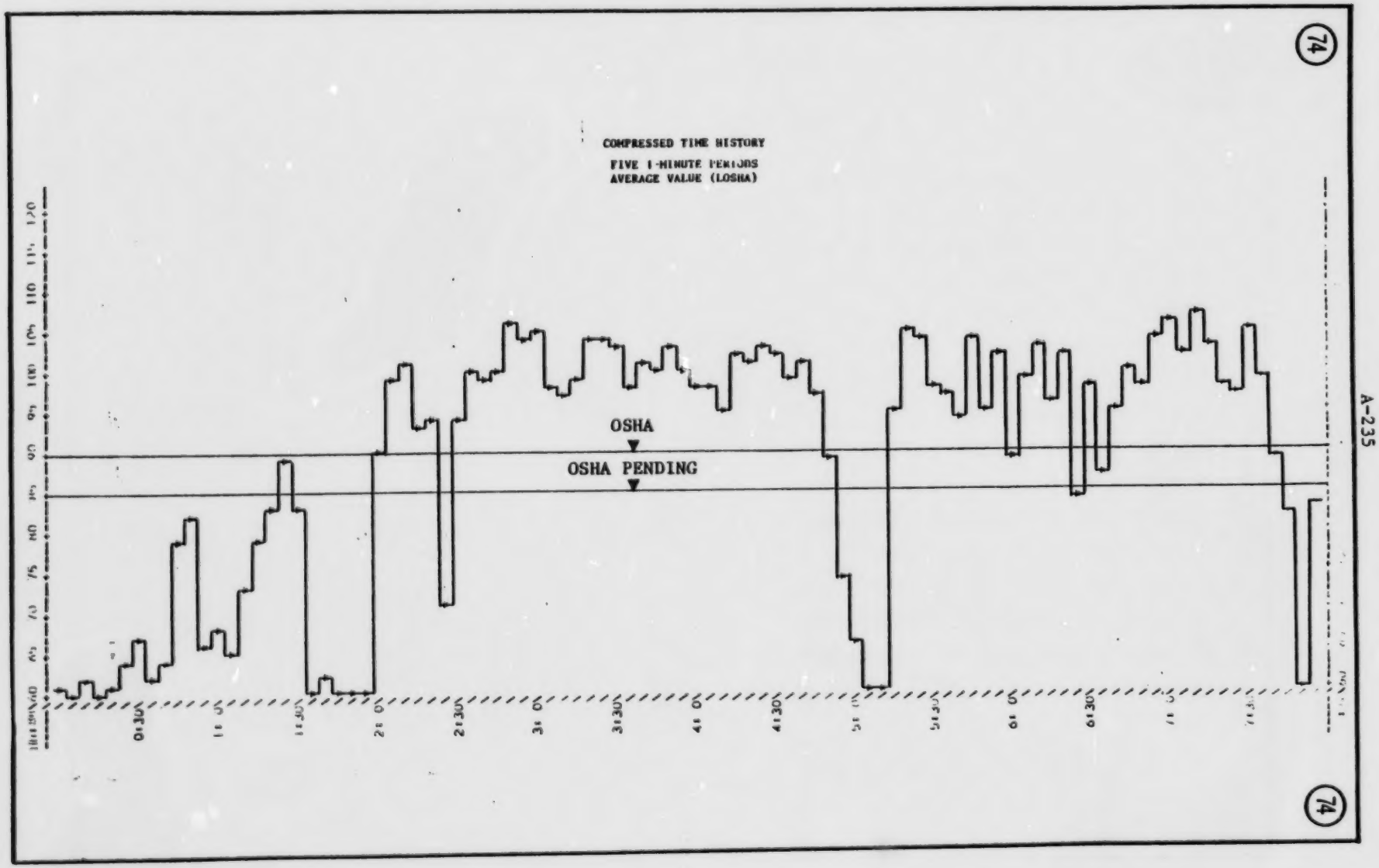
AMPLITUDE DISTRIBUTION

(74) (74)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
120	25.0	60 TO 64
17	3.5	65 TO 69
9	1.9	70 TO 74
10	2.1	75 TO 79
15	3.1	80 TO 84
26	5.4	85 TO 89
28	5.8	90 TO 94
108	22.5	95 TO 99
100	20.8	100 TO 104
44	9.2	105 TO 109
3	.6	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




74
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
74

(75)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
1 26 80 1213 60 64 4 1
136 115200 480

60	60	60	65	61	60	60	60	63	66	62	60	60	70	76	60
65	84	78	72	76	79	81	72	75	78	81	95	93	97	98	92
86	85	82	89	90	92	93	93	90	89	95	95	89	95	76	60
60	60	60	60	60	60	60	63	61	60	61	60	60	60	61	60
60	60	60	60	60	60	60	62	60	60	60	60	60	63	60	60
60	66	60	60	61	62	60	60	60	62	64	67	60	60	60	63
67	72	65	76	67	61	61	62	65	60	65	61	66	69	61	68
60	60	60	60	62	66	60	60	64	60	60	63	60	72	63	75
74	74	74	65	75	66	73	70	77	74	75	81	69	60	80	80
71	74	84	61	67	90	63	69	60	65	60	67	62	65	61	61
60	67	61	66	61	60	67	60	61	60	62	86	68	79	60	60
64	76	62	61	69	60	60	84	77	60	62	60	79	69	65	74
72	60	60	70	66	78	63	60	68	69	60	66	63	63	60	60
60	60	85	60	62	60	60	60	72	60	60	89	61	72	90	60
89	68	61	60	60	60	82	69	61	60	64	70	72	66	61	60
60	82	82	88	66	79	64	60	68	65	60	60	62	62	60	86
61	62	60	60	67	75	60	60	60	63	60	60	60	60	60	60
61	60	84	60	60	62	60	60	60	61	83	60	60	66	60	60
73	60	87	66	60	60	60	60	60	62	61	64	60	84	72	67
60	61	64	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	71	77	85	65	82	85	63	66	63	60	62	72	85
64	66	60	60	60	63	63	78	73	81	66	74	62	71	90	62
65	64	62	76	61	85	63	60	83	63	79	64	71	90	62	72
68	77	66	64	67	70	68	70	62	73	78	68	72	76	61	64
69	61	60	62	60	60	60	60	62	60	61	67	66	68	84	81
69	80	80	62	72	70	61	61	67	72	60	70	62	93	68	85
63	60	76	62	60	60	63	60	60	66	67	63	60	73	66	68
69	79	75	77	78	82	75	70	68	60	65	60	63	64	67	62
62	65	60	60	66	70	88	86	83	71	68	63	64	70	71	74
66	68	78	71	60	60	62	60	60	60	62	61	77	91	92	93

$EOF

(75)

ENTER LOG DATE (DD/MM/YR) : 21/08/79
ENTER SITE CODE (5 CHARS) : 30950
ENTER USER CODE (4 CHARS) : 4688
ENTER JOB CODE (3 CHARS) : 274

DATA LOGGED :21 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1213
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 25 SEPT 1979
SITE CODE : 30950
JOB CODE : 274
USER CODE : 4688
THRESHOLD : 60 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:34

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

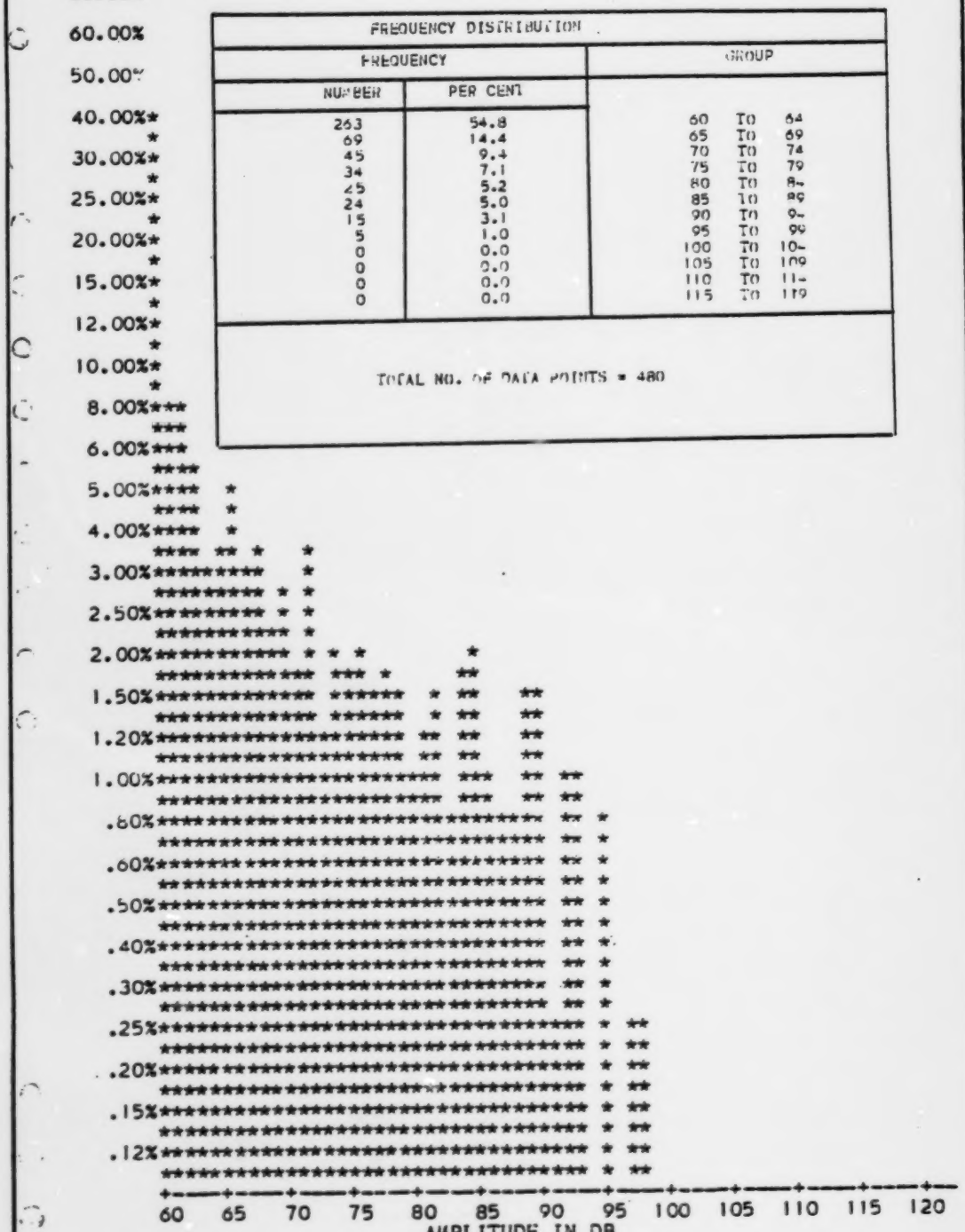
TIME	LOGHA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	64.5	64.5	5.651	5.65
2	63.2	79.9	.309	6.16
3	74.7	78.5	1.497	7.65
4	75.2	77.8	1.605	9.26
5	71.9	77.0	1.017	10.28
6	73.3	76.5	1.240	11.52
7	74.8	76.3	1.511	13.03
8	76.2	76.2	1.835	14.86

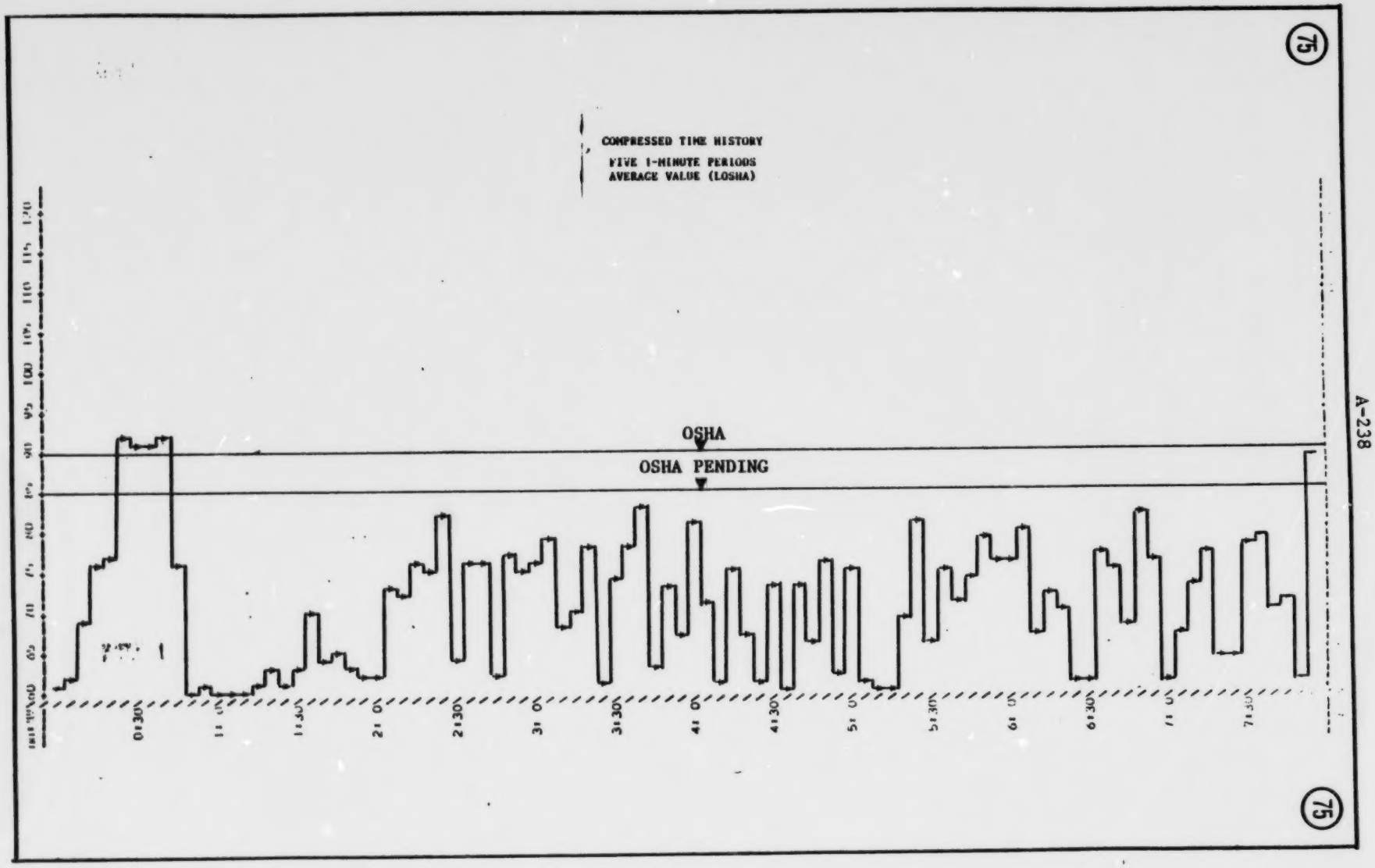
MIN. COMP. = 60 DB
MAX. COMP. = 98 DB
ARITHMETIC MEAN = 67 DB
STD. DEVIATION = 9 DB
VARIANCE = 81 DB

AMPLITUDE DISTRIBUTION

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
263	54.8	60 TO 64
69	14.4	65 TO 69
45	9.4	70 TO 74
34	7.1	75 TO 79
25	5.2	80 TO 84
24	5.0	85 TO 89
15	3.1	90 TO 94
5	1.0	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




75
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
75

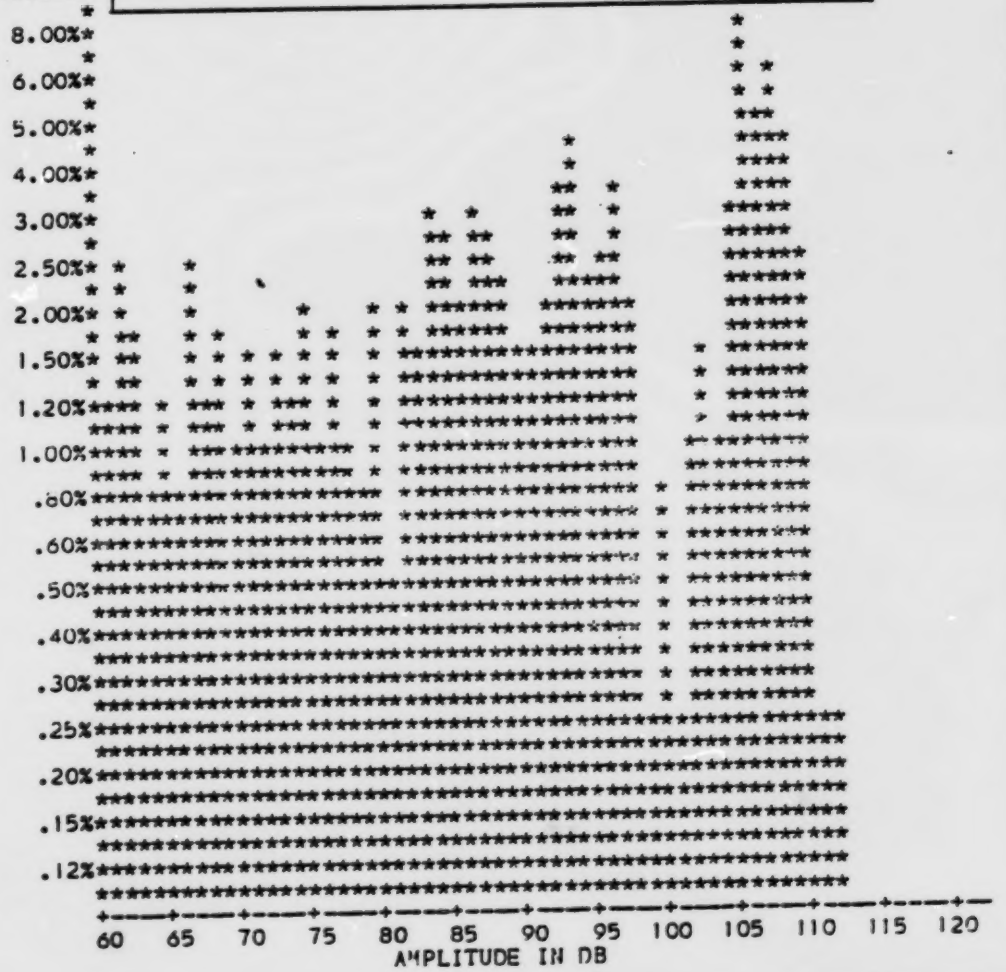
```
(76)
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1212    60    64     4     1
     319     115200  480
  60  60  60  60  60  60  60  60  60  61  60  60  60  60  67
  67  77  60  71  63  63  62  67  75  72  63  61  69  68  63  63
  80  98  95  85  80  83  88  86  94  96  98  82  81  84  90  96
  97  91  97  94  94  95  67  94  88  94  98  91  93  84  94  91
  80  85  96  95  94  96  92  93  95  96  84  77  74  80  71  66
  61  67  70  68  62  62  67  69  73  63  81  75  77  78  69  79
  63  82  75  74  78  72  71  60  75  77  60  72  62  62  60  77
  60  60  69  67  67  80  87  60  60  76  65  78  60  80  60  60
  60  75  90  89  88  97  94  90  92  89  82  80  87  85 108 103
 106 106 107 102 106 106 106 100 110 104 106 107 105 106 106 107
 106 106 107  97  89  94 105 105 109 106 106 108 107  93 105  88
  91 104  97  95  93  97 102 107 106 101  97 109 104 110 105 106
 108 106 109 108 108 107 110 109 108 110 106 108 108 109 108 108
 107 109 103  98  97  96  89  88  87  89 102 110 103 109 106 109
 107 106 105 110 108 110 106 108 109 107  95 108 100  98 109 106
 106 107 108 110 104 108  98 109 108 109 102 110 105 106  90 108
 107  97 100  78  76  98  92  69  65  62  61  60  61  65  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  62  60  64  62  60  62  66  64  82  74  84  74  60
  73  77  67  92  85  84  84  85  86  84  94  99  95  92  88  93
  94  93  94  94  90  91  94  93  95  95  96  96 107 106 109 105
 105 109  98  97 105 106 108 106 107 107 106 109 106 107 106 108
 107 105 106 108 109  96  87  85  97  97  89  88  88  86  87  85
  94  93 103 107 110 107 107 107 108 104 108 105 111 103 109 106
 106 112 108  92  90  92  88  93  88  89  93  97  91  96  88  87
  88  87  87  87  87  87  60  60  60  60  86  84  75  76  93  89
  82  80  82  79  82  86  85  84  83  84  83  77  84  84  83  86
  85  84  83  86  93 103  73  68  73  79  73  62  65  75  60  71
  70  71  69  65  73  83  70  64  85  71  74  69  66  68  76  62
  67  72  70  68  75  93  97  94  94  93  87  95  92  89  94  87
%EOF                                                          (76)

ENTER LOG DATE (DD/MM/YR) : 13/08/79
ENTER SITE CODE (5 CHARS) : 32950
ENTER USER CODE (4 CHARS) : 4694
 ENTER JOB CODE (3 CHARS) : 4H1

   DATA LOGGED :13  AUG 1979          DATA ANALYZED : 20 SEPT 1979
        LOGGER : 08-301/26               SITE CODE : 32950
SERIAL NUMBER : 1212                      JOB CODE : 4H1
      BASELINE : 60 DB                  USER CODE : 4694
DYNAMIC RANGE : 64 DB                 *THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC              TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0           STANDBY TIME =   0: 1:19

                TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          OSHA                      NIOSH
HOUR     CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1        86.9        86.9        8.110        8.11
   2        84.1        85.6        5.531       13.64
   3       101.8        99.3       64.534       78.17
   4       106.1        99.8      116.298      194.47
   5        98.1        99.5       38.433      232.90
   6       101.3        99.8       59.803      292.70
   7        99.7        99.8       48.253      340.96
   8        85.9        99.0        7.040      348.00
MIN. COMP. =  60 DB                MAX. COMP. = 112 DB
ARITHMETIC MEAN =  86 DB
STD. DEVIATION =  17 DB
VARIANCE =289 DB
```

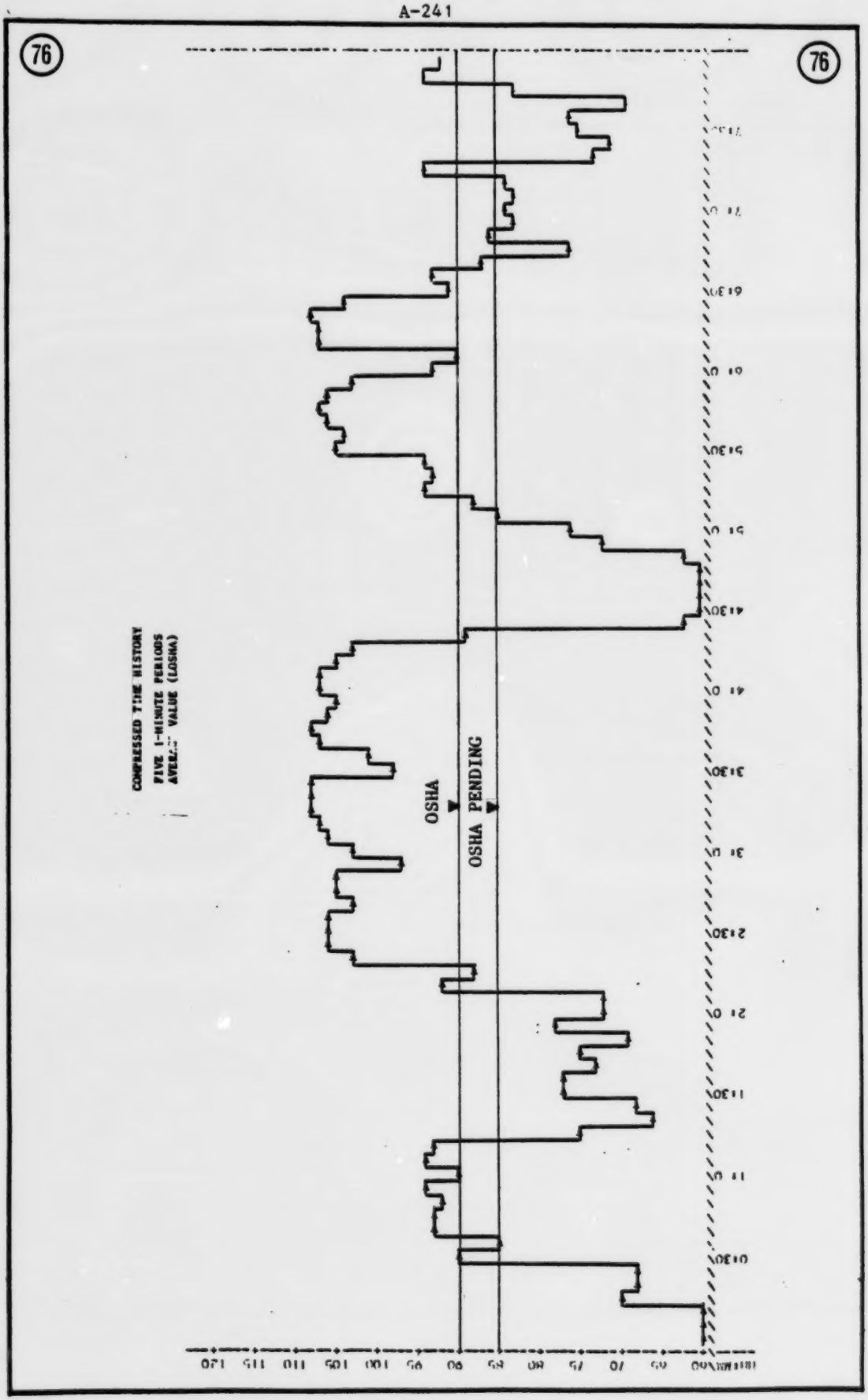
AMPLITUDE DISTRIBUTION

(76) (76)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
81	16.9	60 TO 64
30	6.3	65 TO 69
25	5.2	70 TO 74
26	5.4	75 TO 79
37	7.7	80 TO 84
52	10.8	85 TO 89
52	10.8	90 TO 94
42	8.8	95 TO 99
18	3.8	100 TO 104
105	21.9	105 TO 109
12	2.5	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




76
76
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
120
115
110
105
100
95
90
85
80
75
70
65
60

(77) (77)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1218 60 64 4 1

53411 78034 325

60	62	61	60	61	61	62	70	67	63	66	60	64	73	60	62
63	60	68	66	62	67	77	82	89	85	82	80	80	84	84	96
101	95	93	96	95	97	95	95	92	91	95	92	89	87	88	92
81	74	66	60	60	60	60	60	60	62	60	60	60	60	60	66
60	60	60	66	60	60	60	60	60	[illegible]	77	70	[illegible]	70	66	60
60	60	60	60	60	64	61	60	60	60	60	70	61	60	60	63
79	95	73	64	62	60	60	65	85	61	74	82	86	86	71	60
72	89	67	78	81	85	87	95	85	84	93	89	108	102	106	86
[illegible]	83	[illegible]	95	89	83	93	88	101	89	103	105	111	73	111	104
107	86	90	101	85	107	97	89	96	107	110	109	110	112	109	111
97	89	110	94	96	98	112	108	112	110	113	108	108	91	95	92
88	87	87	82	89	92	81	91	86	85	104	97	90	105	106	107
107	109	111	110	109	109	98	86	88	89	88	69	87	97	100	104
104	102	101	93	94	92	102	102	95	63	60	60	60	60	60	60
65	65	60	60	60	60	60	61	60	60	60	60	60	63	60	66
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	63	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

4EOF

ENTER LOG DATE (DD/MM/YR) : 22/08/79
ENTER SITE CODE (5 CHARS) : 32950
ENTER USER CODE (4 CHARS) : 4701

ENTER JOB CODE (3 CHARS) : 273

DATA LOGGED :22 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1218
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 5:25: 8

DATA ANALYZED : 25 SEPT 1979
SITE CODE : 32950
JOB CODE : 273
USER CODE : 4701
THRESHOLD : 80 DB
TOTAL SAMPLES = 78034
STANDBY TIME = 3:42:32

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 325
PERIOD = 1 MINUTES

TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	%DOSE CURRENT	%DOSE CUMULATIVE
1	86.2	86.2	7.402	7.40
2	77.5	83.1	2.196	9.60
3	103.7	96.5	83.016	92.61
4	98.1	97.0	38.642	131.26
5	60.1	95.4	.197	131.45
6	60.0	94.8	.081	131.53

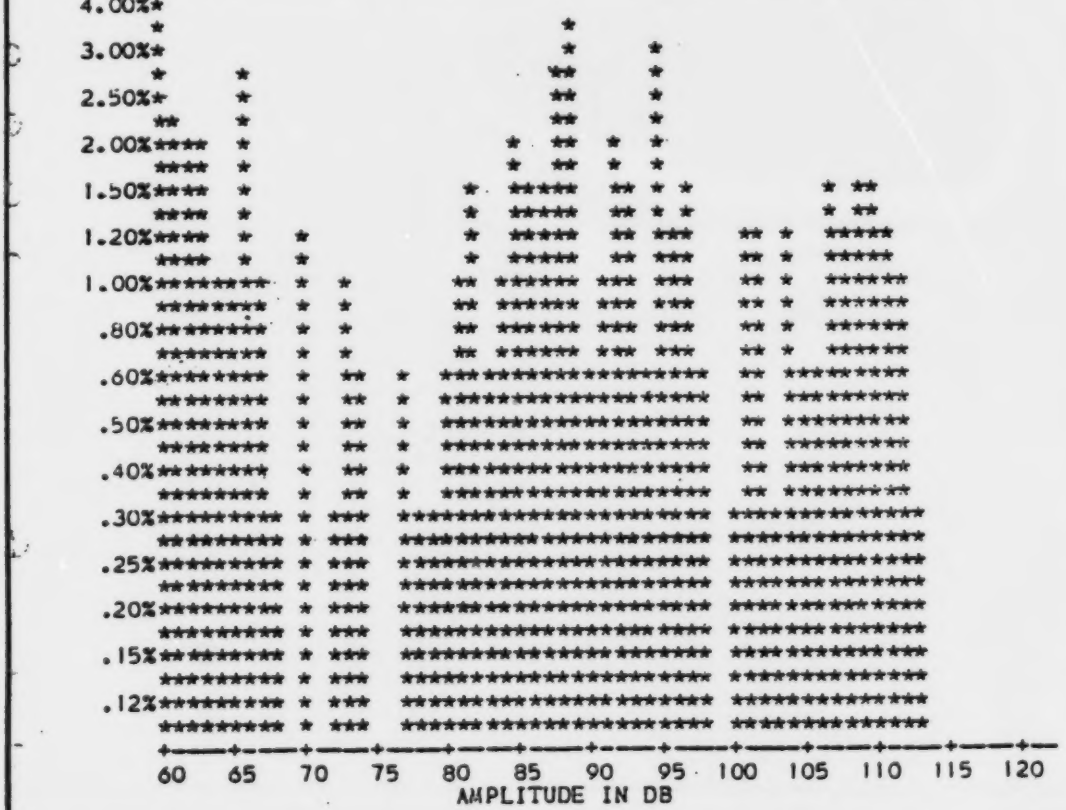
MIN. COMP. = 60 DB
MAX. COMP. = 113 DB
ARITHMETIC MEAN = 75 DB
STD. DEVIATION = 18 DB
VARIANCE =324 DB

AMPLITUDE DISTRIBUTION

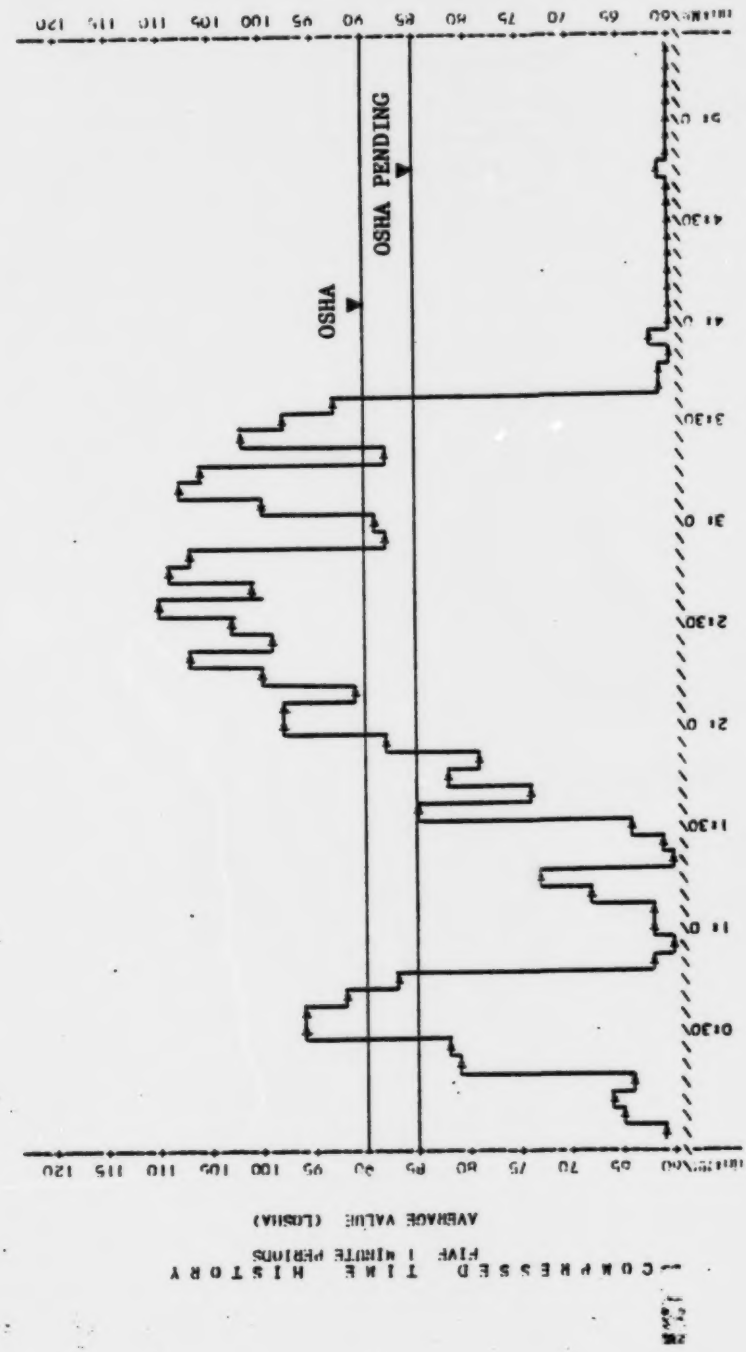
77 77

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
317	66.0	60 TO 64
15	3.1	65 TO 69
10	2.1	70 TO 74
4	.8	75 TO 79
15	3.1	80 TO 84
35	7.3	85 TO 89
18	3.8	90 TO 94
21	4.4	95 TO 99
14	2.9	100 TO 104
18	3.8	105 TO 109
13	2.7	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480



77


OSHA
OSHA PENDING
0:30
1: 0
1:30
2: 0
2:30
3: 0
3:30
4: 0
4:30
5: 0
60 65 70 75 80 85 90 95 100 105 110 115 120
AVERAGE VALUE (LOSHA)
FIVE 1 MINUTE PERIODS
COMPRESSED TIME HISTORY

77

78

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1216    60    64     4     1
     701     115200   480
  60  60  60  60  63  66  65  60  60  60  69  60  60  60  60  60
  60  60  61  62  64  60  62  69  69  66  68  77  78  77  72  60
  60  61  87  87  82  82  77  87  92  86  80  66  80  84  91  92
  93  95  72  93  87  94  94  96  96  94  93  93  88  96  95  93
  96  87  96  92  96  92  85  78  77  77  73  73  66  71  71  69
  65  62  67  73  73  62  69  78  66  68  85  88  86  86  90  92
  67  90  91  81  84  84  87  84  87  78  61  73  77  71  74 102
 104 105 101  88 104 105 103 101 102  99 100 101 104 102 102 106
 103  90  90  84 107 108 106 109 106  76  94  92  85  95  89 107
 100 103 104 101 104  85  87  83 107 104 108 105 104  96 108 106
 102 104  91  88  80  74  70  80  85  82  85  87  83  84  86  80
  60  60  69  70  82 101 100  93  82  82  82  85  88  89  86  89
  86  86  79  81  86  81  84  84  80  69  65  72  91  90  90  87
  86  84  85  86  82  81  86  85  85  82  86  84  80  81  83  83
  84  86  84  84  84  81  78  87  81  82  83  81  79  79  84  84
  77  60  67  76  80  86  94  99  73  73  68  61  60  63  64  67
  62  60  60  60  60  69  69  60  74  62  70  66  64  60  61  66
  60  61  60  60  60  70  63  60  60  60  60  60  60  60  63  60
  65  62  74  68  68  67  80  91  91  62  76  72  65  65  69  65
  69  60  60  63  65  60  60  60  65  81  68  63  64  60  60  62
  62  60  60  60  62  68  65  75  77  68  60  60  60  74  62  65
  78  82  81  72  71  73  83  61  71  61  65  76  60  64  69  67
  66  60  60  60  60  78  85  91  89  90  84  84  83  68  68  66
  75  73  81  79  88  85  78  83  87  83  85  81  80  89  84  84
  82  85  84  86  84  84  83  79  76  87  88  84  86  87  83  86
  84  82  82  79  86  83  86  85  84  84  84  87  85  84  82  86
  85  84  80  84  85  83  76  83  82  75  83  80  73  70  76  76
  75  78  76  69  63  78  86  60  83  87  88  65  72  66  60  62
  70  69  61  64  71  69  68  67  65  68  73  65  64  62  64  67
  67  67  68  69  76  74  79  83  87  85  94  96  93  96  92  97
EOF
```

78

```
ENTER LOG DATE (DD/MM/YR) : 14/08/79
ENTER SITE CODE (5 CHARS) : 32950
ENTER USER CODE (4 CHARS) : 4694
 ENTER JOB CODE (3 CHARS) : MIH
```

DATA LOGGED : 14 AUG 1979	DATA ANALYZED : 21 SEPT 1979
LOGGER : DB-301/26	SITE CODE : 32950
SERIAL NUMBER : 1216	JOB CODE : MIH
BASELINE : 60 DB	USER CODE : 4694
DYNAMIC RANGE : 64 DB	THRESHOLD : 60 DB
SAMPLING RATE : 4/SEC	TOTAL SAMPLES = 115200
TEST DURATION = 8 HR 0 M 0 S	STANDBY TIME = 0 H 2 M 55 S

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
TOSHA DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOGIC		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	84.5	84.5	5.848	5.85
2	92.2	89.3	16.906	22.75
3	100.1	94.8	50.429	73.18
4	86.2	93.4	7.410	80.59
5	77.6	92.0	2.232	82.82
6	72.5	90.8	1.106	83.93
7	83.9	90.1	5.391	89.32
8	82.4	89.5	4.360	93.68

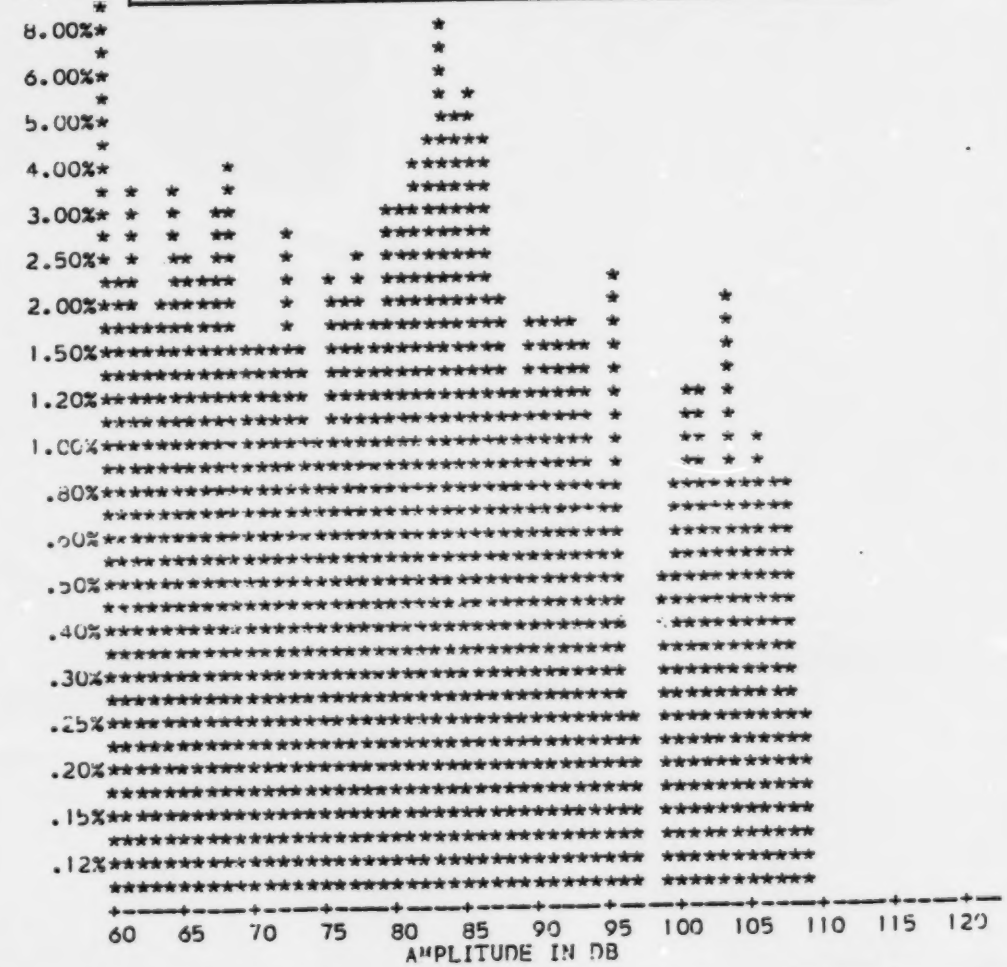
MIN. COMP. = 60 DB MAX. COMP. = 109 DB
ARITHMETIC MEAN = 78 DB
STD. DEVIATION = 13 DB
VARIANCE =169 DB

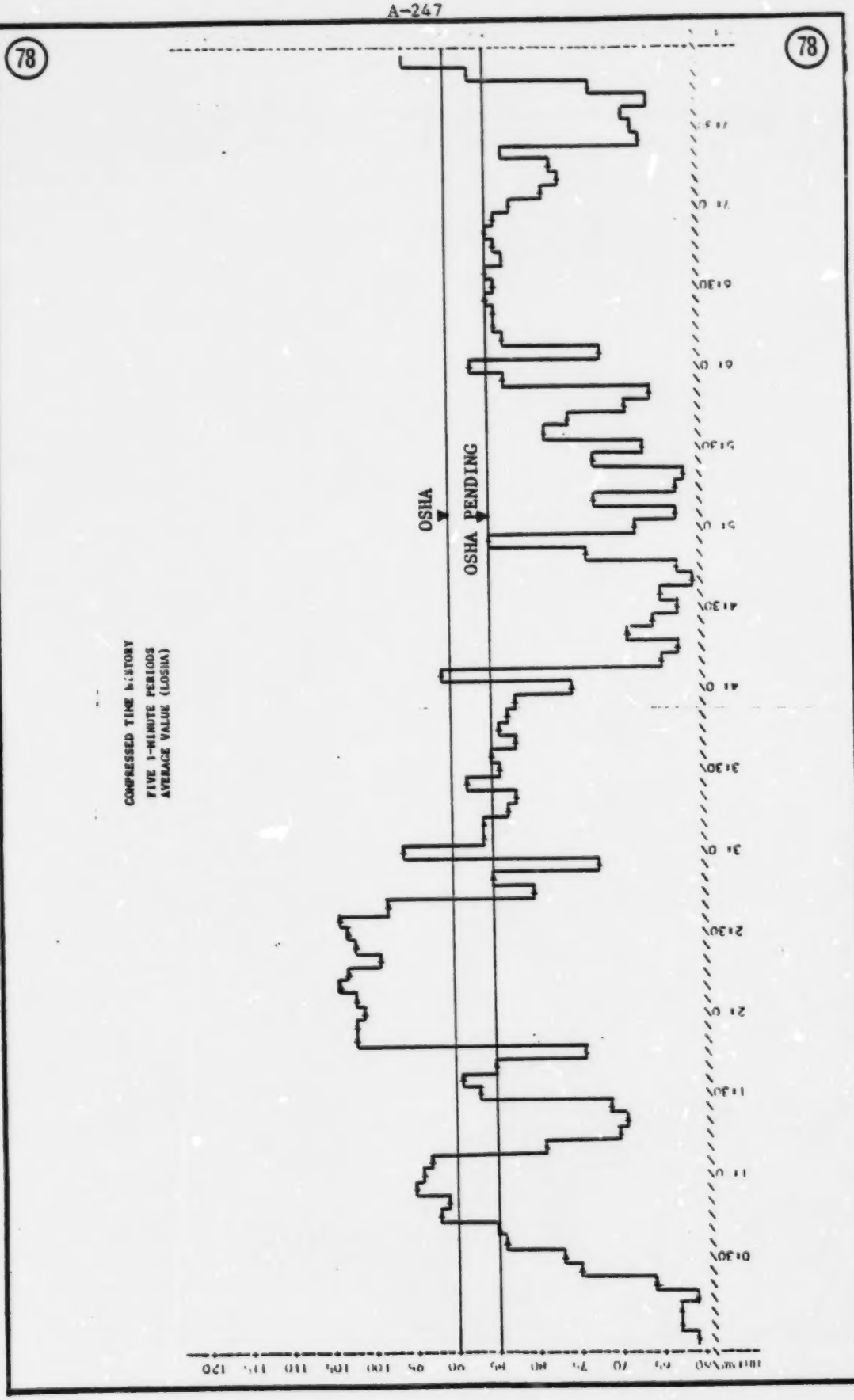
AMPLITUDE DISTRIBUTION

78 78

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
97	20.2	60 TO 64
63	13.1	65 TO 69
35	7.3	70 TO 74
38	7.9	75 TO 79
88	18.3	80 TO 84
72	15.0	85 TO 89
34	7.1	90 TO 94
15	3.1	95 TO 99
24	5.0	100 TO 104
14	2.9	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




78
78
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

79

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
 1  26  80  1219   60   64    4    1
      62   115200  480
 60  60  60  61  68  60  60  62  60  62  71  60  64  62  63  60
 60  69  82  85  97  99  87  89  90  84  85  79  79  80  81  81
 95 101  94  94  95  95  98  93  96  93  93  95  96  90  89  90
 94  85  73  74  60  60  60  60  60  60  60  63  60  60  60  60
 60  65  60  60  60  60  60  60  56  60  60  60  60  60  60  60
 65  78  66  67  71  66  76  60  61  69  66  60  60  60  60  60
 60  60  60  60  60  60  60  63  64  60  60  66  60  60  60  60
 68  72  60  73  66  62  60  64  60  60  61  63  61  61  63  60
 79  79  60  63  74  67  90  68  61  61  61  60  69  70  65  67
 60  62  60  65  60  60  60  60  67  62  63  63  63  68  70  60
 60  60  60  61  60  60  86  80  85  66  62  69  63  63  61  60
 60  60  60  72  63  60  76  87  67  61  60  60  60  34 100 106
 65  80 102  81  74  83  92  75  76  61  70  75  61  62  68  74
 78  66  71  75  72  68  63  67  64  75  80  89  68  76  67  68
 69  74  65  60  60  86  90  97  97 101 108 100  97  99  61  71
 74  92  79  81  75  74  91  69  60  60  60  60  60  62  60  60
 60  60  60  60  60  60  64  63  68  60  60  60  64  65  80  65
 65  60  60  68  63  71  60  60  61  65  60  60  60  60  60  60
 60  60  68  65  60  63  64  63  67  62  60  67  77  90  65  71
 60 101  99  99 100 103  93  62  60  68  67  74  61  63  60  61
 69  61  61  76  76  60  74  95  87  94  96  96  86  60  60  80
 98  90  94  62  63  91  88  89  82  88  99  73  72  98  91  93
100  73  70  60  60  60  60  60  60  60  60  60  60  96  76  91
 62  60  60  62  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  62  63  62  62  71  74  92  60  60  60  60  60
 60  60  60  78  61  63  70  60  72  60  60  73  66  60  60  88
 90  60  60  60  60  60  60  60  60  60  65  60  60  72  60  60
 60  94  91  80  80  84  82  94  60  65  68  60  60  72  90  90
 88  87  65  61  60  60  60  61  60  79  72  67  84  92  84  66
 71  78  78  79  74  64  91  92  88  90  90  95  94  91  89  93
READY
```

79

```
ENTER LOG DATE (DD/MO/YR) : 22/08/79
ENTER SITE CODE (5 CHARS) : 33950
ENTER USER CODE (4 CHARS) : 4721
 ENTER JOB CODE (3 CHARS) : 274
```

```
   DATA LOGGED :22  AUG 1979          DATA ANALYZED : 25 SEPT 1979
       LOGGER : 08-301/26                 SITE CODE : 33950
SERIAL NUMBER : 1219                       JOB CODE : 274
     BASELINE : 60 DB                     USER CODE : 4721
DYNAMIC RANGE : 94 DB                     THRESHOL  : 60 DB
SAMPLING RATE : 4/SEC                TOTAL SAMPLES = 115200
TEST DURATION =  8 HR 0 M 0          STARTED AT    =  8 HRS
```

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
TOTAL TIME = 20 HR / 0 MINS
CALIBRATION (CURRENT) DATE = 0 0 0
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOGIA		LOGIB	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	88.1	88.1	9.546	9.55
2	72.2	83.8	1.065	10.61
3	72.8	81.6	1.160	11.77
4	90.2	84.9	12.824	24.60
5	71.7	83.6	.995	25.59
6	90.0	85.1	12.434	38.02
7	75.5	84.3	1.686	39.71
8	83.9	84.3	5.377	45.09

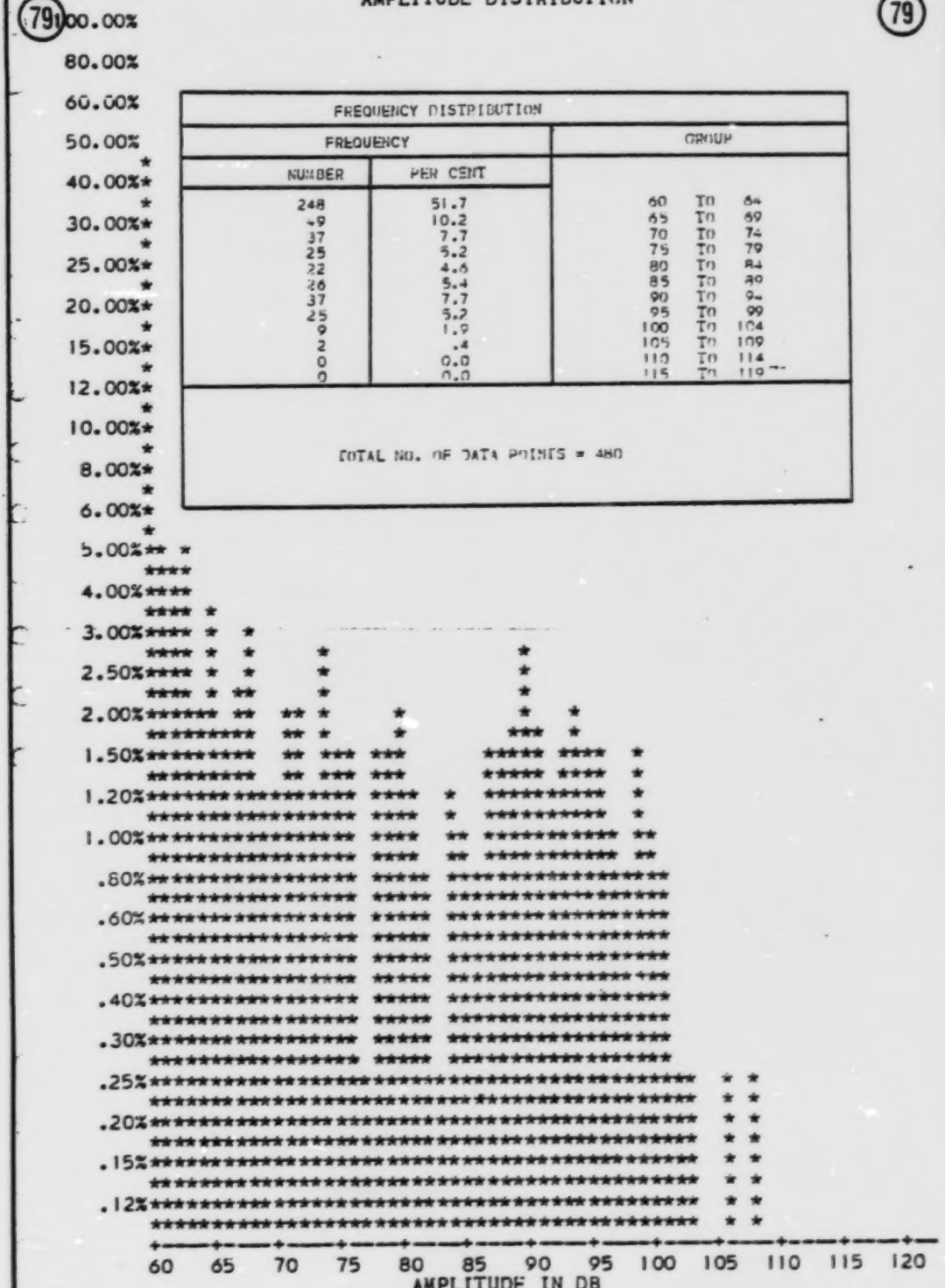
MIN. COMP. = 60 DB MAX. COMP. = 109 DB
ARITHMETIC MEAN = 70 DB
STD. DEVIATION = 13 DB
VARIANCE =169 DB

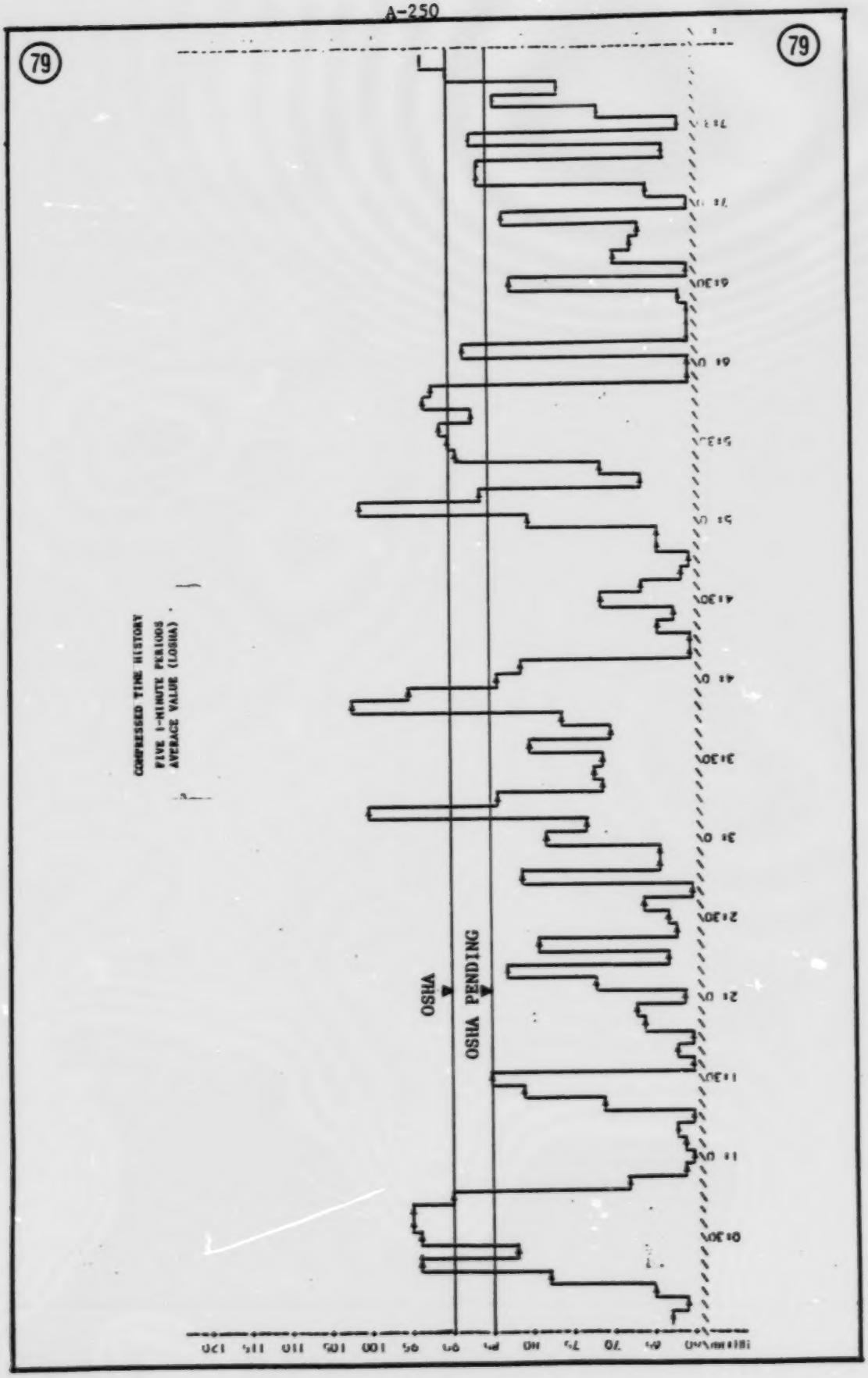
AMPLITUDE DISTRIBUTION

(79) (79)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
248	51.7	60 TO 64
49	10.2	65 TO 69
37	7.7	70 TO 74
25	5.2	75 TO 79
22	4.6	80 TO 84
26	5.4	85 TO 89
37	7.7	90 TO 94
25	5.2	95 TO 99
9	1.9	100 TO 104
2	.4	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




79
79
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
7:0
7:30
120
115
110
105
100
95
90
85
80
75
70
65
60

(80) PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN' (80)

```
 1  26  80  1212   60   64    4    1
 73866      50762  211
61 69 64 62 60 63 60 60 61 61 61 71 58 64 60 61
60 60 60 60 60 64 60 65 61 60 62 60 60 60 86 92
81 82 82 82 97 101 90 89 84 85 82 93 94 94 73 87
90 89 95 73 60 60 60 75 76 60 60 77 61 60 60 60
60 60 60 60 60 60 60 60 60 60 60 61 66 88 98 90
80 78 68 76 65 67 63 66 63 60 66 65 69 73 68 69
62 71 76 78 62 66 69 73 60 61 73 67 60 60 60 65
60 60 60 60 60 60 60 60 60 60 60 60 62 62 66 66
71 60 60 60 60 61 65 66 69 64 67 60 60 60 60 60
60 60 60 60 60 60 60 60 60 64 69 62 72 85 98 92
74 60 67 61 61 60 61 60 72 62 64 60 60 68 68 64
63 62 65 65 67 68 60 60 73 63 60 65 71 60 60 60
60 60 60 60 60 60 60 60 61 62 61 60 60 60 63 60
60 60 61 60 60 60 60 60 60 60 60 60 60 60 60 60
60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60
60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60
60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60
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60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60
60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60
60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60
*EOF
```

ENTER LOG DATE (DD/MM/YR) : 14/08/79
ENTER SITE CODE (5 CHARS) : 98034
ENTER USER CODE (4 CHARS) : 7845
ENTER JOB CODE (3 CHARS) : MIH

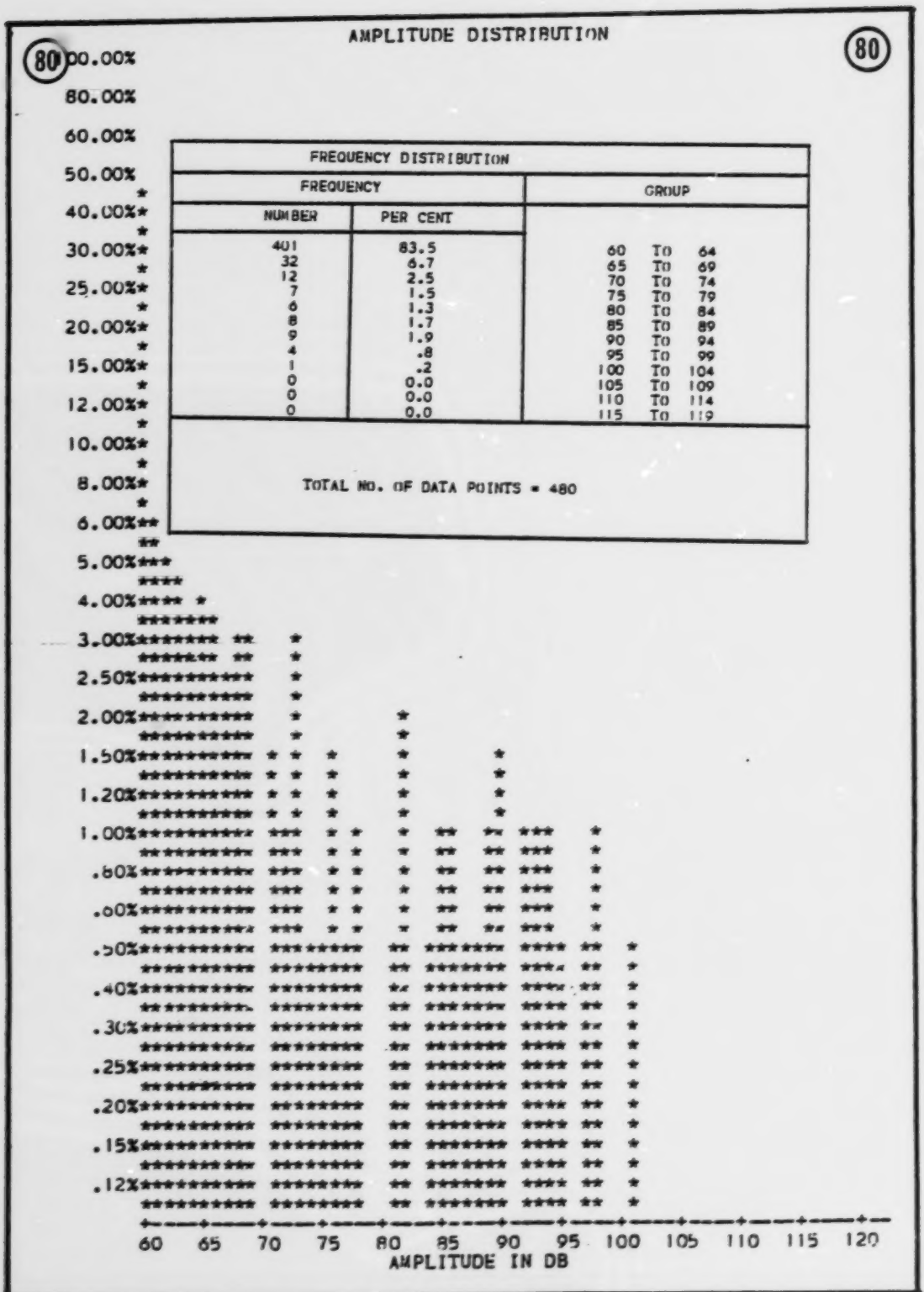
```
   DATA LOGGED :14  AUG 1979          DATA ANALYZED : 21 SEPT 1979
        LOGGER : DB-301/26                SITE CODE : 98034
 SERIAL NUMBER : 1212                      JOB CODE : MIH
      BASELINE : 60 DB                    USER CODE : 7845
 DYNAMIC RANGE : 64 DB                    THRESHOLD : 80 DB
 SAMPLING RATE : 4/SEC                TOTAL SAMPLES =  50762
 TEST DURATION =   3:31:30             STANDBY TIME =   5: 7:46
```

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 211
PERIOD = 1 MINUTES

TIME HOUR	LOSHA CURRENT	LOSHA CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	83.9	83.9	5.396	5.40
2	75.0	80.8	1.568	6.97
3	73.9	79.1	1.336	8.30
4	62.9	78.1	.150	8.45

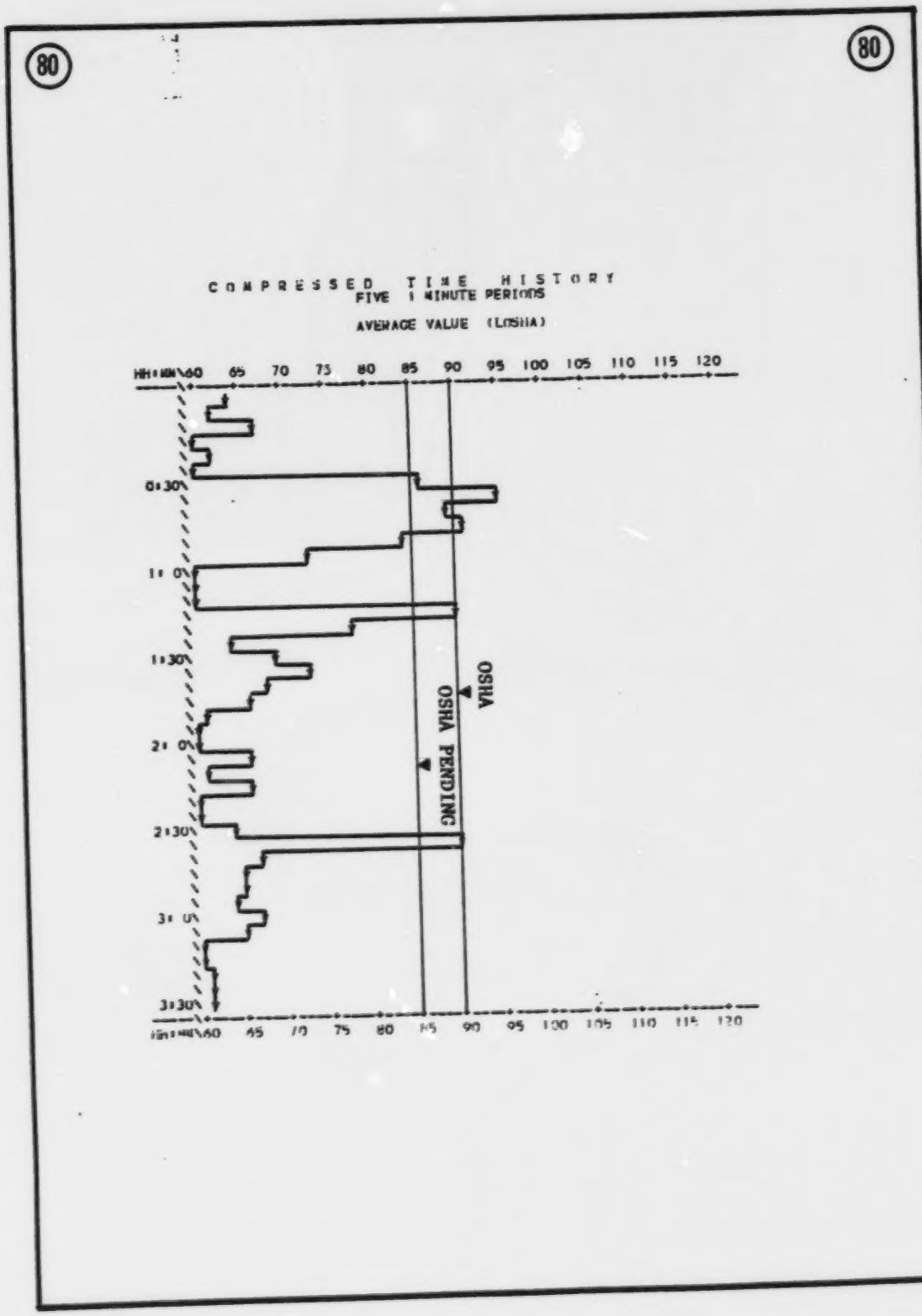
MIN. COMP. = 60 DB MAX. COMP. = 101 DB
ARITHMETIC MEAN = 66 DB
STD. DEVIATION = 10 DB
VARIANCE =107 DB



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
401	83.5	60 To 64
32	6.7	65 To 69
12	2.5	70 To 74
7	1.5	75 To 79
6	1.3	80 To 84
8	1.7	85 To 89
9	1.9	90 To 94
4	.8	95 To 99
1	.2	100 To 104
0	0.0	105 To 109
0	0.0	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480


80
80
COMPRESSED TIME HISTORY
FIVE 1 MINUTE PERIODS
AVERAGE VALUE (LOSHA)
HH:MM\60 65 70 75 80 85 90 95 100 105 110 115 120
0:30\
1:00\
1:30\
2:00\
2:30\
3:00\
3:30\
OSHA
OSHA PENDING

81 81

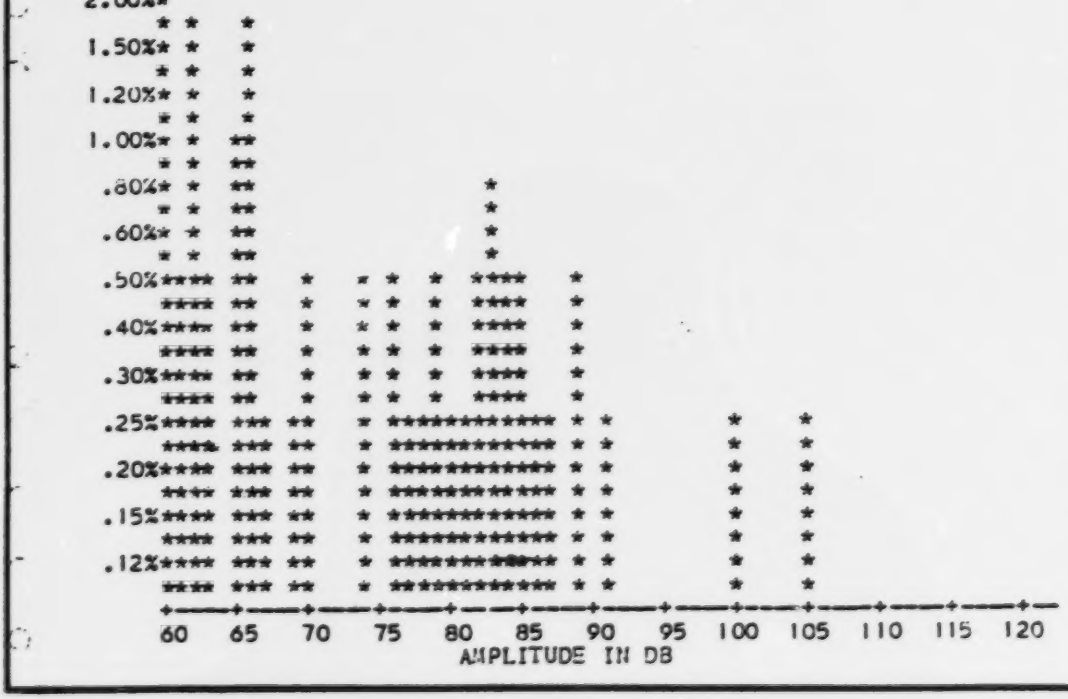
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1214   60   64    4    1
     732     115200  480
  60  60  60  60  60  61  66  60  60  62  60  60  60  60  66  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  66  76  60  70  83  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  87  83  76  60  60  60  60  60
  60  84  65  60  60  60  60  60  60  60  60  60  60  60  60  77
  63  84  65  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  67  70  80  66
  60 100 105  86  89  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  85  91  89  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  56  62  60  60  60  60  60
  60  60  62  78  82  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  66  65  74  74  82  79  69  65  60  60  60  62
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  81  63  60  60  60  60  60  60  60  60  60  60
  60  60  62  66  79  60  65  62  61  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  62  63  60  60  60  60  60
%EOF


ENTER LOG DATE (DD/MM/YR) : 24/08/79

ENTER SITE CODE (5 CHARS) : 00000
ENTER USER CODE (4 CHARS) : 4692

 ENTER JOB CODE (3 CHARS) :  273


   DATA LOGGED :24  AUG 1979          DATA ANALYZED : 25 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : 00000
SERIAL NUMBER : 1214                         JOB CODE : 273
      BASELINE : [illegible] DB                 USER CODE : 4692
DYNAMIC RANGE : 54 DB                       THRESHOLD : [illegible]
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: [illegible]: 0            STANDBY TIME =   [illegible]: 3

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = [illegible] DB / [illegible]
EXCHANGE (DOUBLING) RATE = [illegible]
THRESHOLD (CUTOFF) LEVEL = 60 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOGMA                        NOISE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      60.4      60.4          .205       .21
   2      71.3      67.7          .934      1.14
   3      60.0      65.9          .195      1.33
   4      81.0      73.2         3.567      4.90
   5      60.2      71.9          .201      5.10
   6      66.2      71.2          .464      5.57
   7      60.0      70.4          .195      5.76
   8      63.3      69.8          .308      6.07
MIN. COMP. =  60 DB            MAX. COMP. = 105 DB
ARITHMETIC MEAN =  61 DB
STD. DEVIATION =   6 DB
VARIANCE = 36 DB
```

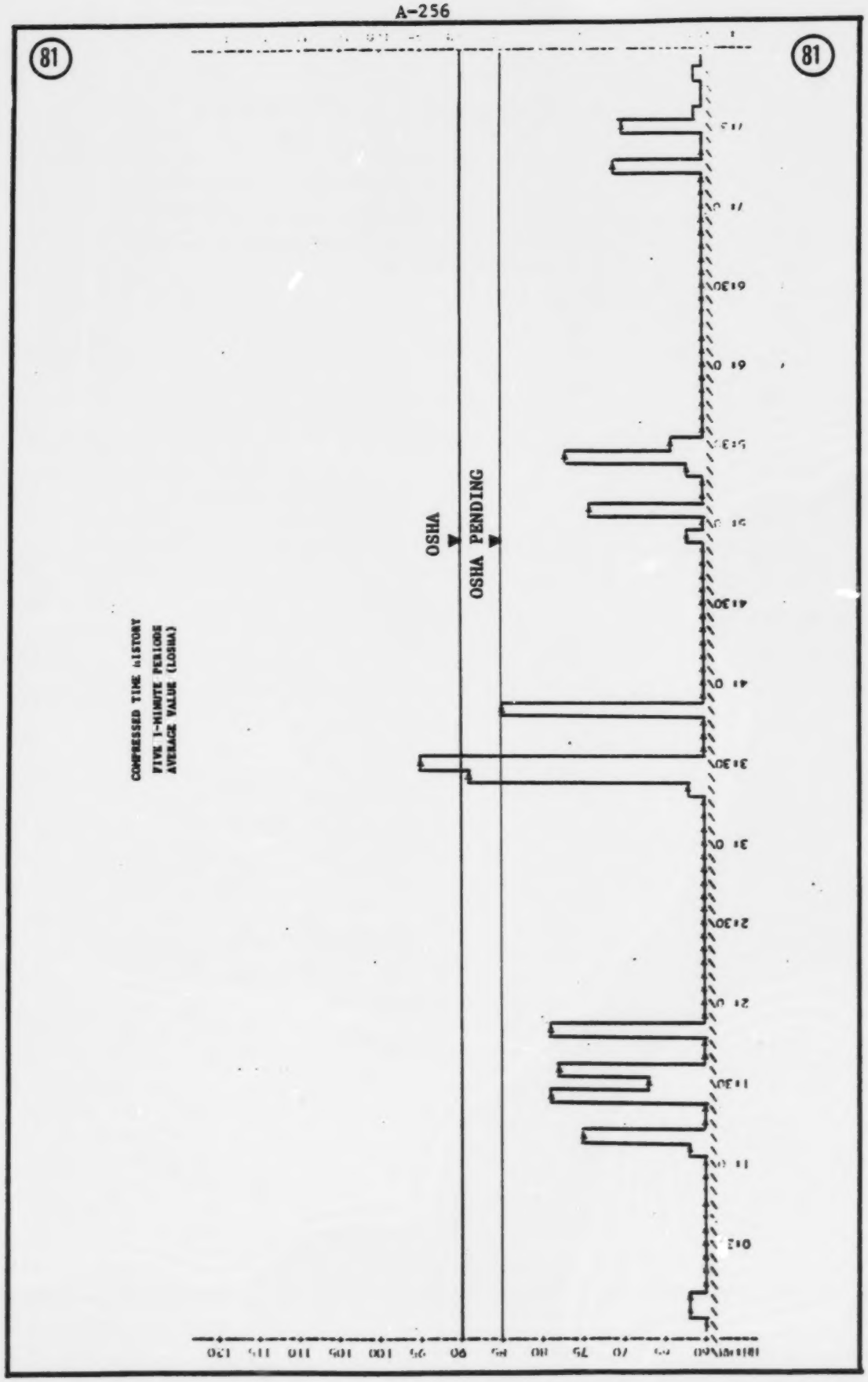
AMPLITUDE DISTRIBUTION

(81) (81)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
439	91.5	60 TO 64
13	2.7	65 TO 69
4	.8	70 TO 74
6	1.3	75 TO 79
9	1.9	80 TO 84
6	1.3	85 TO 89
1	.2	90 TO 94
0	0.0	95 TO 99
1	.2	100 TO 104
1	.2	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




81
81
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(82)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

(82)

```
 1  26  80  1212    60    64     4     1
     71      115200   480
 72  74  61  60  61  60  64  66  60  61  70  69  77  70  66  62
 62  69  68  64  77  69  70  72  67  70  72  60  74  72  66  76
 64  64  63  66  60  60  70  62  64  62  64  69  60  60  66  69
 73  67  63  81  80  60  62  60  68  71  81  60  60  60  60  60
 60  60  60  60  62  62  60  60  60  62  81  77  81  64  73  60
 60  60  60  60  72  70  71  88  87  60  60  64  60  60  60  60
 60  60  60  60  60  60  82  91  77  60  79  92  71  92  86  71
 82  74  60  72  71  60  60  60  60  60  74  75  60  70  93  86
 61  60  87  79  60  60  60  60  91  93  88  80  87  89  81  60
 60  60  60  60  74  60  60  60  60  60  60  60  60  60  60  60
 71  84  60  60  65  70  60  60  60  60  60  83  92  64  60  60
 60  60  74  80  85  87  78  95  80  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  78  60  60  60  60  72  62  61  60
 60  60  72  64  60  60  60  73  81  60  60  60  77  86  91  116
 95  82  60  60  90  90  91  94  76  60  60  60  72  60  60  60
 60  60  60  60  60  60  60  60  72  70  67  72  60  73  60  60
 60  71  60  60  60  85  60  60  60  60  60  60  60  82  85  86
 89  88  85  89  87  87  82  76  76  84  71  77  72  60  60  70
 77  60  71  60  93  85  60  60  60  76  78  78  83  81  84  73
 60  68  79  74  77  60  73  68  60  60  60  60  70  60  68  87
 93  92  73  77  86  66  68  90  86  93  77  60  75  60  75  78
 85  91  88  88  87  89  90  88  75  75  60  65  60  60  85  60
 60  60  60  60  60  60  60  60  60  64  69  89  86  64  79  85
 60  60  80  81  90  65  85  60  60  60  60  60  63  61  81  84
 68  60  66  90  62  72  85  61  63  68  73  77  81  70  71  76
 81  67  86  71  70  67  71  72  77  68  67  75  66  74  83  74
 75  71  63  60  60  70  60  60  60  67  91  90  68  63  79  73
 76  81  60  60  60  60  78  60  89  80  60  72  79  71  60  60
 60  62  60  60  60  60  60  61  87  78  60  60  60  60  60  60
 60  60  77  60  60  60  60  60  60  60  60  60  60  60  60  60
EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 27/07/79
ENTER SITE CODE (5 CHARS) : SCHST
ENTER USER CODE (4 CHARS) : 4734
 ENTER JOB CODE (3 CHARS) : 273
```

```
   DATA LOGGED :27 JULY 1979          DATA ANALYZED : 19 SEPT 1979
       LOGGER : DB-301/26                 SITE CODE : SCHST
SERIAL NUMBER : 1212                       JOB CODE : 273
     BASELINE : 60 DB                     USER CODE : 4734
DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC               TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0             STANDBY TIME =   0: 0:17
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	69.5	69.5	.728	.73
2	77.0	74.1	2.050	2.78
3	78.6	76.0	2.580	5.36
4	88.8	81.8	10.633	15.99
5	78.0	81.2	2.358	18.35
6	81.2	81.2	3.678	22.03
7	77.3	80.7	2.151	24.18
8	73.9	80.1	1.336	25.51

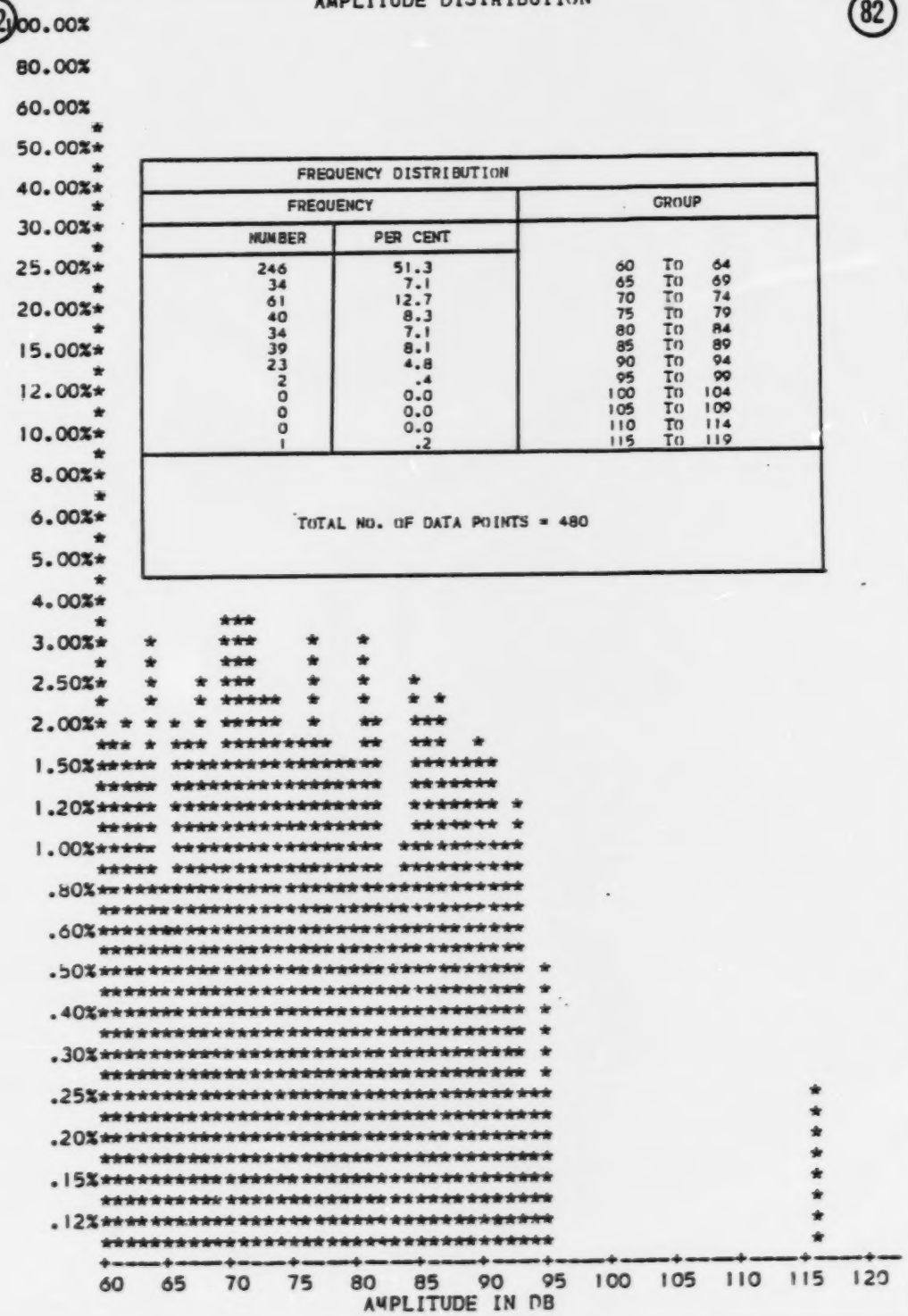
```
MIN. COMP. =  60 DB                MAX. COMP. = 116 DB
ARITHMETIC MEAN =  69 DB
STD. DEVIATION =  11 DB
VARIANCE =121 DB
```

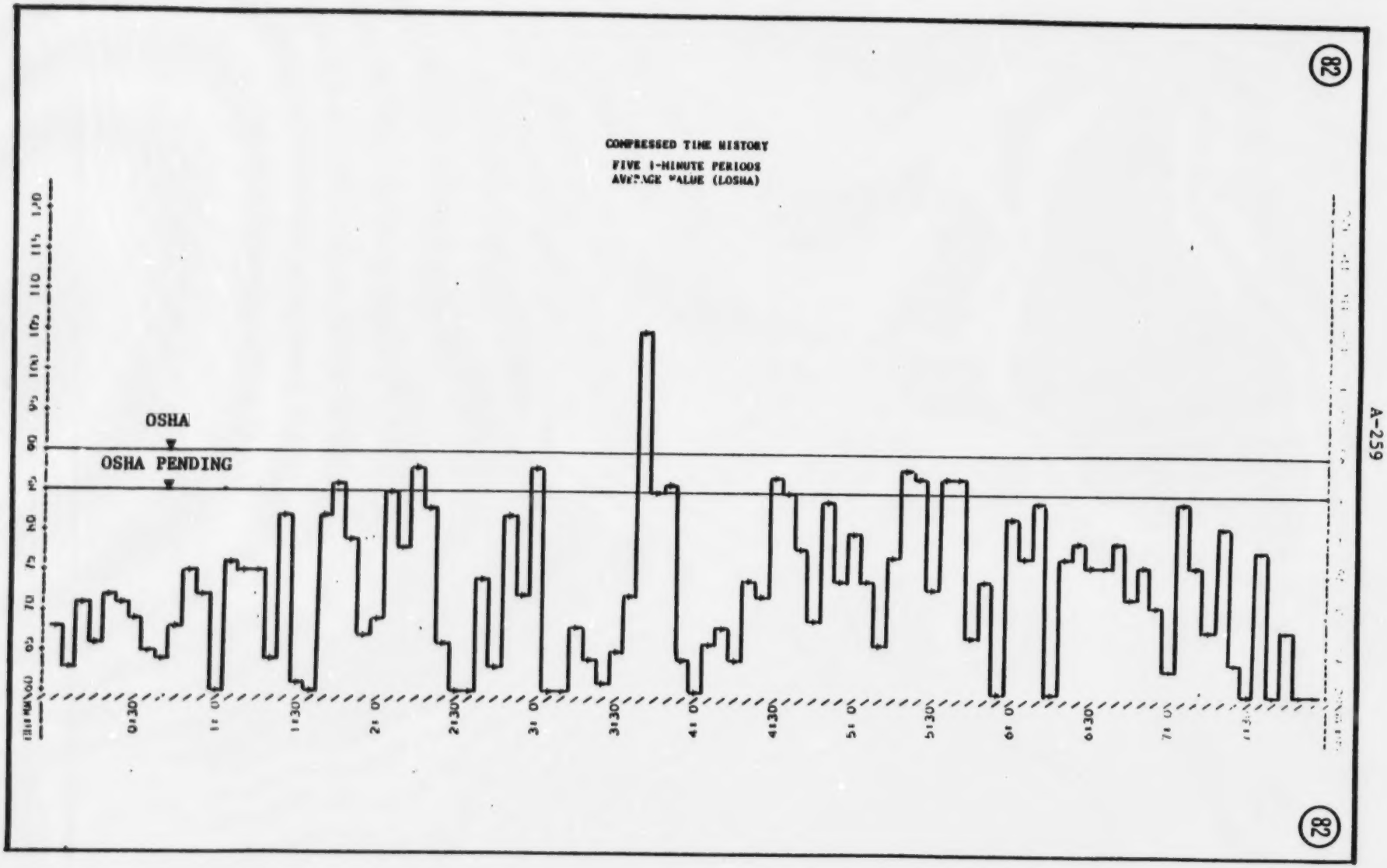
AMPLITUDE DISTRIBUTION

(82) (82)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
246	51.3	60 TO 64
34	7.1	65 TO 69
61	12.7	70 TO 74
40	8.3	75 TO 79
34	7.1	80 TO 84
39	8.1	85 TO 89
23	4.8	90 TO 94
2	.4	95 TO 99
0	0.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
1	.2	115 TO 119

TOTAL NO. OF DATA POINTS = 480




82
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
82

(83) (83)

PLACE TAPE IN [illegible] TYPE A [illegible]

1 [illegible] 80 [illegible] [illegible] 64 [illegible] 1

1 [illegible]52 114507 477

60	75	67	61	60	60	60	60	62	60	62	60	65	60	67	60
62	66	81	61	64	67	69	77	75	78	81	81	79	78	77	75
70	67	79	76	82	93	80	86	92	93	92	90	90	93	92	90
90	93	[illegible]	101	[illegible]	102	101	[illegible]	100	90	97	100	96	95	[illegible]	[illegible]
90	99	97	99	101	103	102	97	79	63	62	60	60	65	68	72
[illegible]	[illegible]	[illegible]	71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	10[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
81	83	[illegible]	[illegible]	[illegible]	84	[illegible]	[illegible]	[illegible]	82	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10[illegible]	103	[illegible]	[illegible]	97	[illegible]	[illegible]	97	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
99	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
98	97	99	98	[illegible]	97	96	[illegible]	97	89	87	92	93	89	93	[illegible]
[illegible]	[illegible]	[illegible]	102	101	[illegible]	101	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
67	71	80	77	76	76	83	77	[illegible]	75	72	[illegible]	74	89	79	66
74	80	83	81	75	80	76	80	75	75	83	80	71	77	77	74
[illegible]	[illegible]	[illegible]	74	74	77	79	79	[illegible]	82	81	[illegible]	[illegible]	83	84	[illegible]
80	85	83	73	78	78	79	75	77	76	76	75	79	82	81	82
82	79	75	81	74	79	80	72	74	69	73	71	74	71	80	80
75	80	80	88	70	73	82	72	75	78	77	80	75	78	81	83
[illegible]	77	83	82	[illegible]	79	[illegible]	[illegible]	[illegible]	76	72	67	83	[illegible]	87	75
79	72	77	69	80	82	79	73	74	76	77	67	79	75	87	69
76	75	78	74	60	61	68	79	63	60	60	65	63	69	69	69
83	80	81	93	96	95	98	99	97	98	96	97	99	89	87	92
72	76	77	81	74	80	73	75	73	77	76	65	64	66	71	75
81	83	83	71	81	81	69	60	60	60	60	74	75	73	76	78
78	80	70	83	87	83	77	67	60	60	60	60	60	60	62	60
60	60	60	60	60	60	60	60	61	60	60	62	61	60	60	60
60	64	61	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	61	66	63	60	60	60

$EOF

ENTER LOG DATE (MM/DD/YR) : 10/07/79
ENTER SITE CODE (5 CHARS) : CO201
ENTER USER CODE (4 CHARS) : 4186

ENTER JOB CODE (3 CHARS) : 270

DATA LOGGED : 10 JULY 1979
LOGGER : CO-301/26
SERIAL NUMBER : 1213
[illegible]
[illegible]
[illegible] : 4/[illegible]
[illegible] = 7[illegible]

DATA ANALYZED : 11 SEPT 1979
SITE CODE : CO201
JOB CODE : 270
USER CODE : 41[illegible]
[illegible] :
TOTAL SAMPLES = 114[illegible]
[illegible] = [illegible]

[illegible] ANALYSIS

[illegible] (E.S.I.) [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
NO [illegible] OF CO [illegible] = 477
PERIOD = 1 MINUTES

[illegible]	[illegible]			
1	[illegible]	[illegible]	11.[illegible]	11.3[illegible]
2	25.6	[illegible]3.1	27.127	3[illegible].42
3	[illegible]	[illegible]4.5	21.189	[illegible]
[illegible]	[illegible]	[illegible]	1[illegible].8[illegible]	[illegible]
[illegible]	77.7	[illegible]	[illegible]6	[illegible]
6	77.1	91.3	2.[illegible]	[illegible]
7	[illegible]3	[illegible]	7.[illegible]3	[illegible]
[illegible]	[illegible]	89.9	[illegible]	97.70

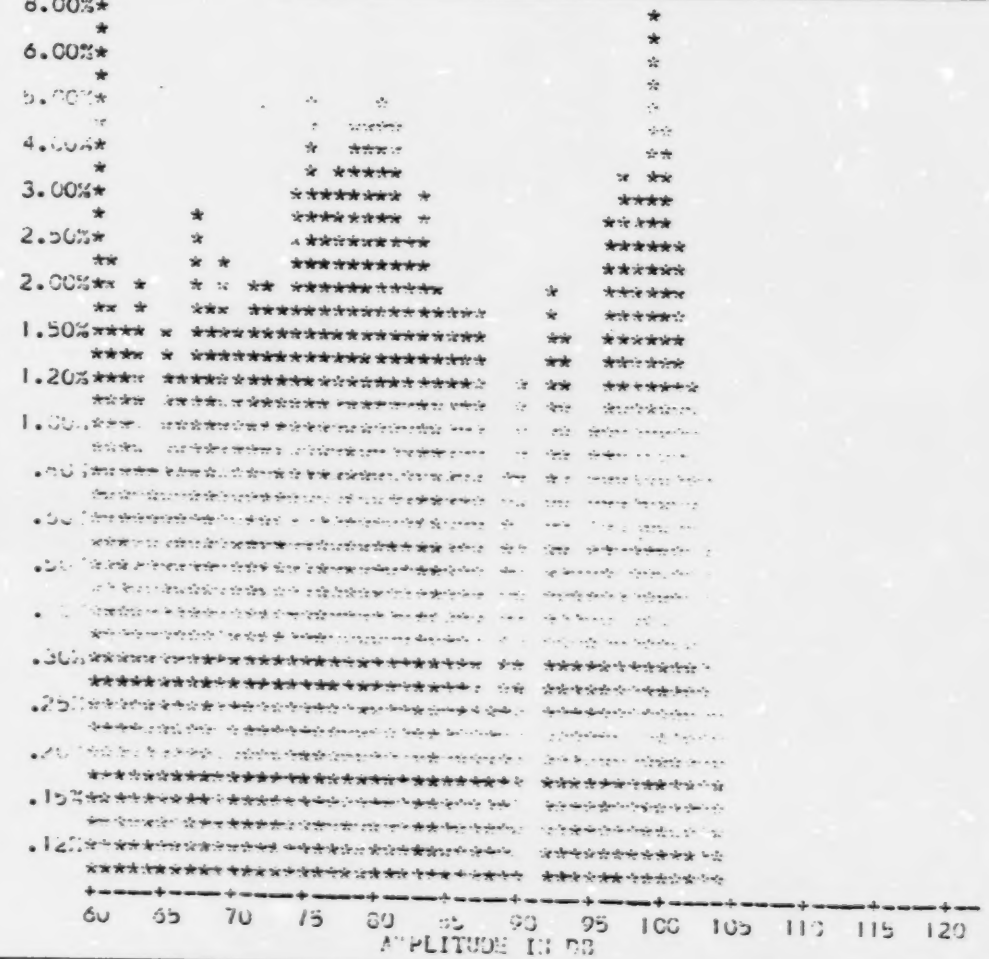
[illegible] = [illegible]
A[illegible] = 1[illegible]
ARITHMETIC MEAN = 79.[illegible]
[illegible] = 14[illegible]
[illegible]-196[illegible]

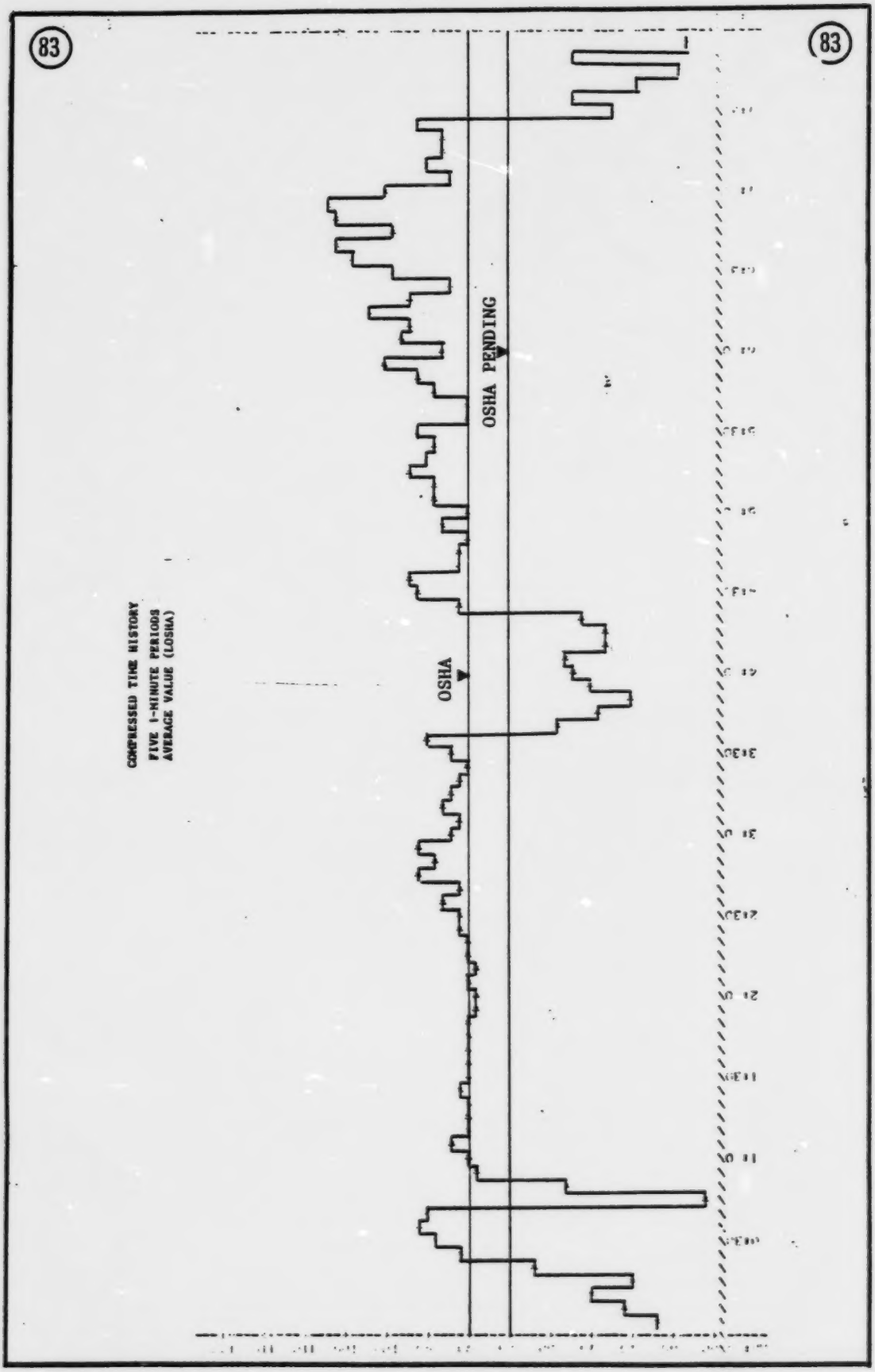
(83) (83)

AMPLITUDE DISTRIBUTION

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
97	20.2	60 To 64
38	7.9	65 To 69
42	8.8	70 To 74
82	17.1	75 To 79
66	13.8	80 To 84
25	5.2	85 To 89
21	4.4	90 To 94
72	15.0	95 To 99
37	7.7	100 To 104
0	0.0	105 To 109
0	0.0	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




83
83
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(84)

PLACE TAPE IN READER UNIT TYPE A [illegible]

1 86 80 1212 64 3 1

14080 115200 30

66 61 60 66 60 71 60 65 62 62 62 62 64 67 64 65
75 67 75 66 74 63 77 68 66 60 65 64 63 71 75 76
80 75 85 89 92 91 91 90 92 90 90 91 91 93 89 89
100 99 96 98 97 92 98 93 90 93 91 93 [illegible] 103
100 99 101 100 91 80 89 [illegible] 91 90 93 91 95 92 [illegible]
99 95 89 92 97 94 96 [illegible] 92 94 96 104 104 105 [illegible] 105
96 [illegible] 102 103 101 99 [illegible] [illegible] 90 [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible]
90 [illegible] 90 84 [illegible] 90 [illegible] [illegible] 90 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
84 90 83 80 80 [illegible] [illegible] 86 91 [illegible] [illegible] [illegible] [illegible] [illegible] 91 [illegible]
95 106 103 104 99 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible]
101 103 103 104 101 102 102 101 [illegible] 99 [illegible] 97 [illegible] 86 [illegible] [illegible]
78 80 83 82 80 71 82 80 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] 93 [illegible] 71 [illegible] 77 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
98 99 90 96 100 101 103 102 105 102 99 100 102 103 99 [illegible]
100 102 97 88 95 100 102 104 103 99 101 104 104 97 97 [illegible]
[illegible] 96 [illegible] 94 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
102 96 84 96 104 100 103 100 100 92 96 95 92 89 97 101
102 95 103 103 103 96 101 105 104 102 104 104 [illegible] 97 101 [illegible]
99 87 84 82 92 91 89 93 86 92 85 80 92 94 [illegible] [illegible]
97 87 72 89 84 83 [illegible] [illegible] [illegible] 81 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
80 81 80 84 80 80 80 81 [illegible] 80 80 [illegible] [illegible] 80 [illegible] [illegible]
80 81 80 82 84 80 80 80 80 80 80 80 80 80 80 81
82 81 84 82 85 88 82 81 80 81 80 80 84 80 82 85
83 84 80 80 80 80 81 81 81 80 80 80 [illegible] 80 80 80
80 80 82 88 89 86 81 88 88 85 82 87 81 80 85 89
84 83 83 82 87 81 82 83 85 84 89 89 [illegible] 83 81 89
83 83 85 80 82 82 81 88 80 80 84 80 83 83 80 80
85 80 82 86 82 89 87 92 95 92 95 93 95 91 94 86
%EOF

ENTER LOG DATE (DD/MM/YR) : 10/07/79
ENTER SITE CODE (5 CHARS) : CC201
ENTER USER CODE (4 CHARS) : 4449

ENTER JOB CODE (3 CHARS) : 271

DATA LOGGED :10 JULY 1979
LOGGER : 98-301/26
SERIAL NUMBER : 1212
BASELINE : [illegible]
[illegible]
[illegible]
[illegible]

DATA ANALYZED : 11 SEPT 1979
SITE CODE : CC201
JOB CODE : 271
USER CODE : 4449
[illegible]
[illegible]
[illegible]

SITE HISTORY ANALYSIS

TOTAL EXPOSURE INDEX (T.E.I.) CALCULATIONS
[illegible]
[illegible]
CALIBRATION (BASELINE) DATE = [illegible]
[illegible]
[illegible]
PERIOD = 1 MINUTES

TIME (MINS)	LOG.M CURRENT	LOG.M CUMULATIVE	INDEX CURRENT	INDEX CUMULATIVE
1	[illegible]	[illegible]	[illegible]	[illegible]
2	99.4	93.5	30.949	40.64
3	92.5	93.2	17.695	58.34
4	93.3	93.2	19.674	78.22
5	92.9	93.0	48.[illegible]	126.07
6	94.6	94.0	22.364	148.41
7	81.9	93.8	.240	148.65
8	80.6	93.0	3.411	152.07

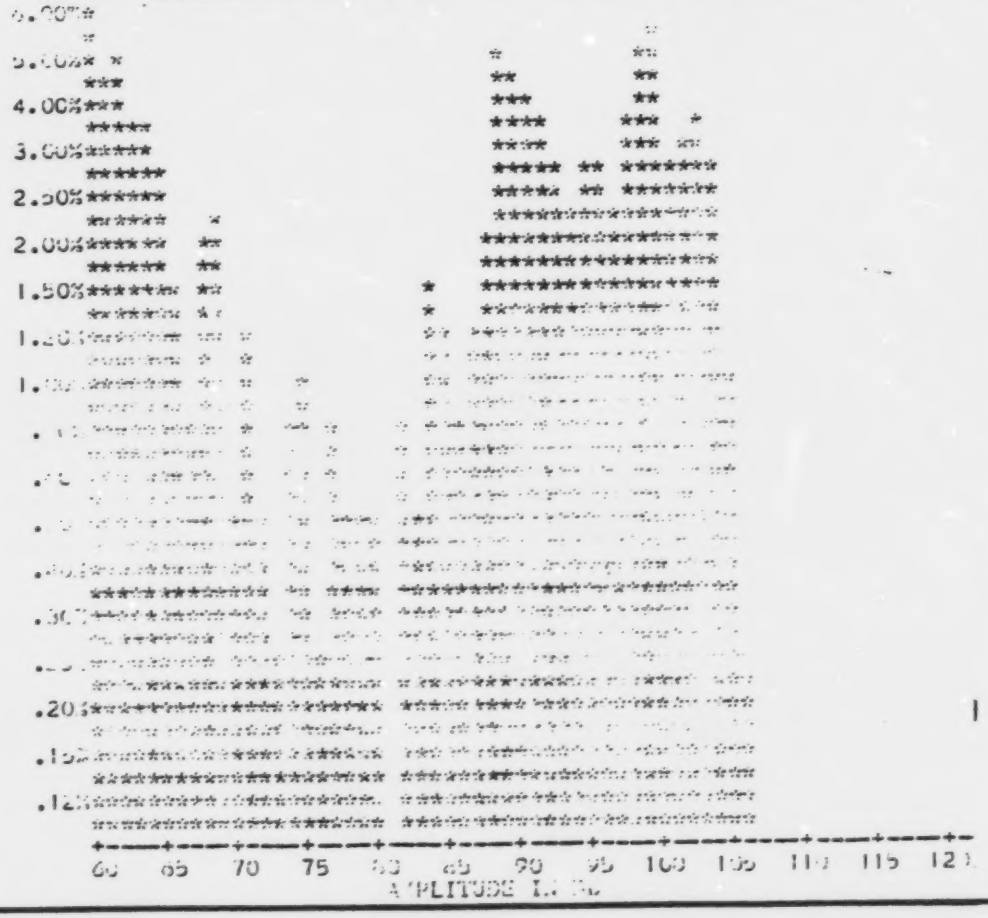
[illegible] = [illegible] [illegible] = 106.[illegible]
ANTIL. [illegible] = [illegible]
STD. DEVIATION = 17.[illegible]
[illegible]

AMPLITUDE DISTRIBUTION

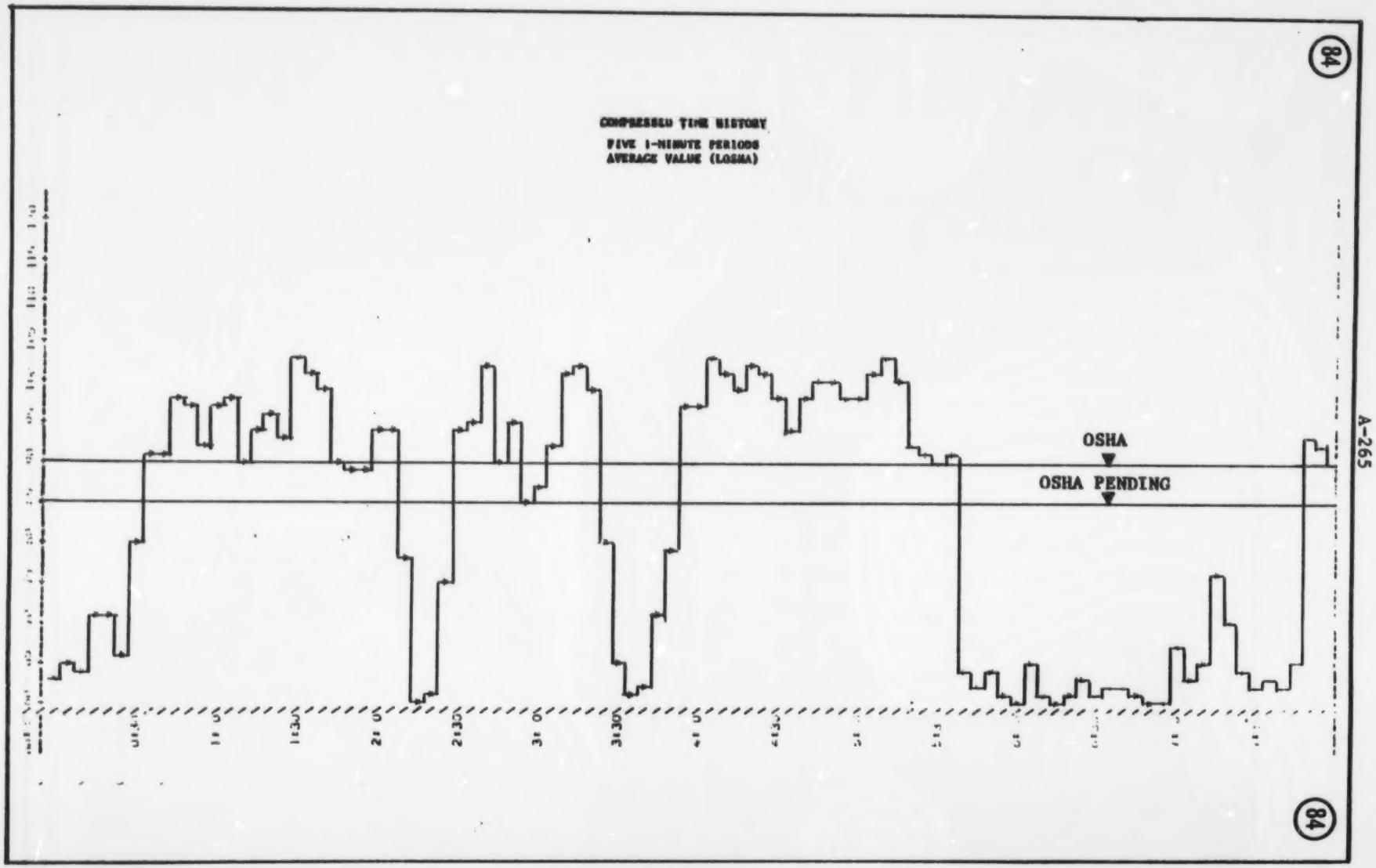
(84) (84)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
154	32.1	60 TO 64
37	7.7	65 TO 69
13	2.7	70 TO 74
12	2.5	75 TO 79
13	2.7	80 TO 84
40	8.3	85 TO 89
69	14.4	90 TO 94
65	13.5	95 TO 99
72	15.0	100 TO 104
5	1.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480



AMPLITUDE


84
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
84

85 85

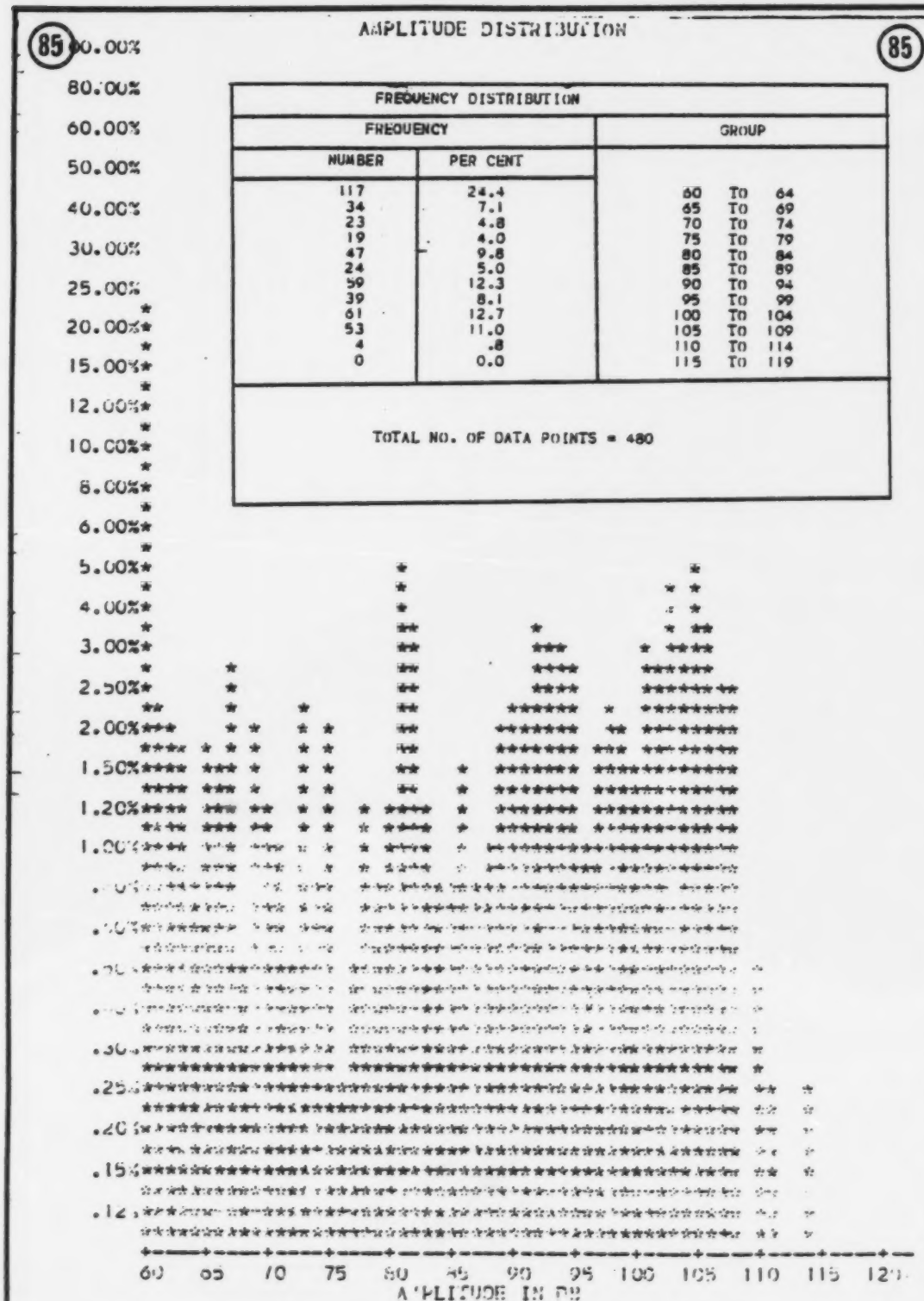
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1224   60   64    4    1
     74     115200  480
  63  67  62  60  68  60  60  65  67  68  75  64  75  62  78  77
  73  65  69  78  60  60  60  60  60  60  60  63  62  62  69  89
  73  69  70  73  69  69  83  73  74  81  75  75  82  91  96  91
  87  86  86  90  94  90  90  89  92  89  92  90  89  95  89  95
  96  92  92  82  97  92  92  92  93  86  67  60  60  60  60  60
  60  60  60  61  60  60  60  66  91  90  85  88  84  82  82  83
  75  71  67  81  79  81  83  81  81  81  81  81  81  81  81  81
  80  73  60  60  78  85  81  82  99  102  93  102  97  99  98  111
 107 105 108 110 103 110 107  93  92  93  94  96 100 100 101 107
 102 108 108 105 107 106 106 107 104  93  93  92  83  82  82  81
  82  81  82  81  82  82  81  80  81  79  78  83  71  80  81  81
  69  80  86  91  89  89  88  73  60  63  62  61  60  60  60  60
  60  60  67  60  63  60  60  60  60  60  60  60  70  63  72  64
  60  60  60  60  67  73  67  78  74  60  65  60  61  60  60  61
  61  60  60  61  77  62  61  63  66  73  69  79  80  85  82  65
  65  66  66  66  69  75  84  70  60  60  65  70  71  76  90  95
  84  60  60  60  86  94  86  67  74  60  71  82  90  98  99  95
  88  95  94 104 101 103 103 105  98  98  95  95  94  95  98  95
 103 101  94 101  97  87  91  99  98  98  93  90  93 100  99 102
  94  88 103 106 100  89 103 106 105 107 106 105 106 105 104  91
  92  94  92  95 101 104 101 103 102 107 105 108 104 108 106  99
  91  92  96 102 101 102 103 103 106 104 108 104 105 105 101  91
  98  93  97 102 102 103 102 103 103 105 108 105 106 106  94  92
  94  94  93 104  90 101 105 104 106 104 102 105 105 105 104  94
  92 104 103  99  99 101 103 103 103 106 114 108 105 107 106 103
  93 101 101  91  93 100 103 104 105 105 108 106 107 105 107 106
 100  93  92  82  60  73  75  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  63  75  60  62  64  72  60  60  60  60
  60  60  60  60  60  60  60  60  61  60  67  67  67  60  66  61
  65  70  62  60  60  87  94 101  95  97  97  98  97  60  60  60
%EOF


ENTER LOG DATE (DD/MM/YR) : 23/07/79

ENTER SITE CODE (5 CHARS) : 1SHAF

ENTER USER CODE (4 CHARS) : 7721
 ENTER JOB CODE (3 CHARS) : 270


   DATA LOGGED :23 JULY 1979          DATA ANALYZED : 17 SEPT 1979
       LOGGER : JB-301/26                  SITE CODE : 1SHAF
SERIAL NUMBER : 1224                        JOB CODE : 270
     BASELINE : 60 DB                      USER CODE : 7721
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0               STANDBY TIME =   0: 0:18

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                      NDOSE
HOUR     CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1       82.4       82.4        4.335       4.34
   2       85.1       83.9        6.358      10.69
   3      100.3       93.7       52.087      62.78
   4       72.9       91.8        1.172.     63.95
   5       94.1       92.3       22.111      86.06
   6      102.4       95.3       70.131     156.19
   7      103.4       97.2       79.696     235.89
   8       82.5       96.3        4.441     240.33
MIN. COMP. =  60 DB            MAX. COMP. = 114 DB
ARITHMETIC MEAN =  83 DB
STD. DEVIATION =  17 DB
VARIANCE =289 DB
```

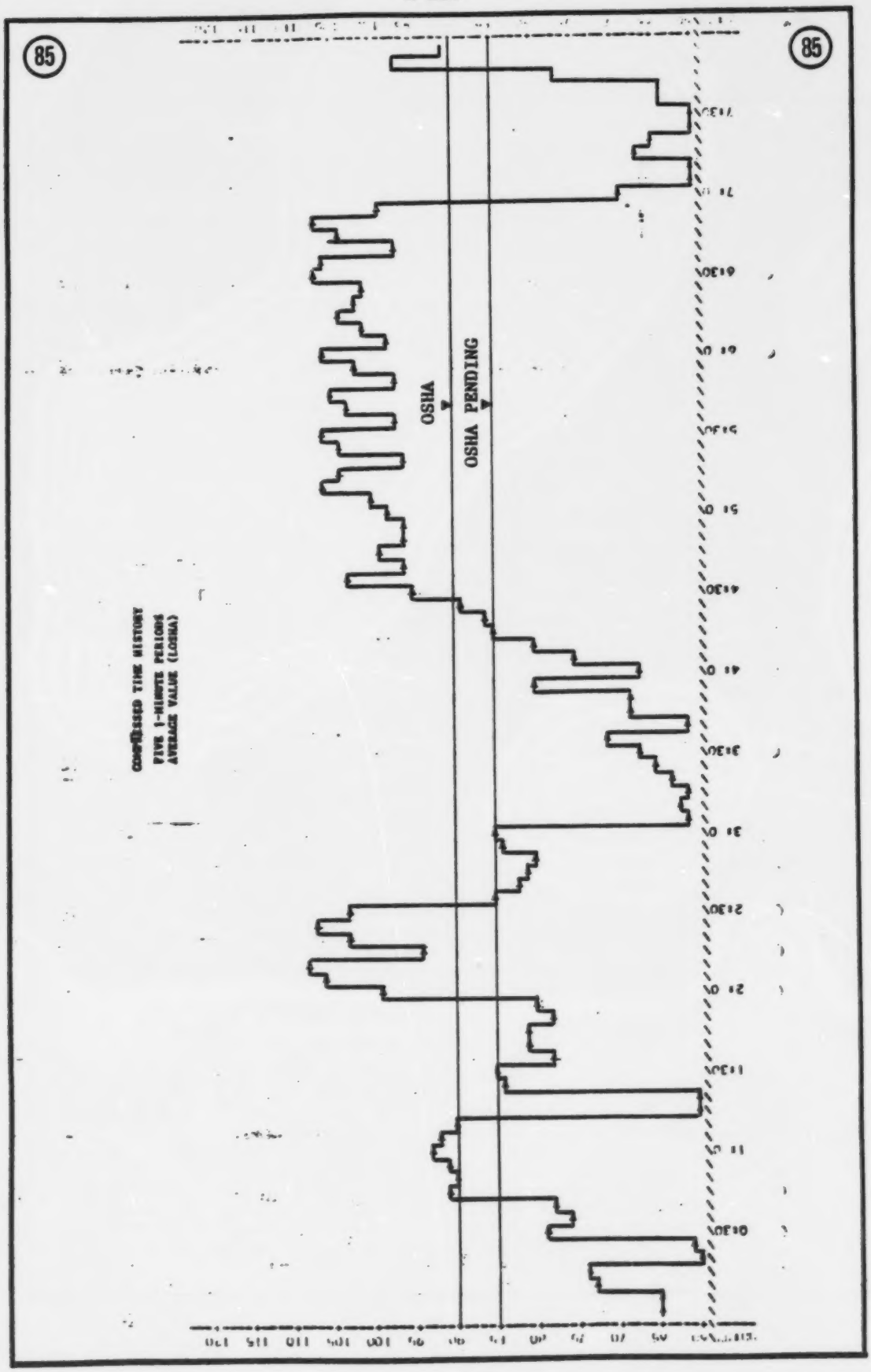
AMPLITUDE DISTRIBUTION

(85) (85)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
117	24.4	60 To 64
34	7.1	65 To 69
23	4.8	70 To 74
19	4.0	75 To 79
47	9.8	80 To 84
24	5.0	85 To 89
59	12.3	90 To 94
39	8.1	95 To 99
61	12.7	100 To 104
53	11.0	105 To 109
4	.8	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




85
85
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(86)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
1 26 80 1219 60 64 4 1
79 115200 480

65	65	61	62	60	61	64	60	60	61	60	60	60	62	62	60
60	65	67	60	60	60	60	74	62	60	60	60	62	60	60	60
61	60	60	60	61	68	60	69	67	71	65	60	62	62	60	71
74	77	80	70	82	89	88	89	89	90	90	90	90	102	101	99
101	100	100	101	102	101	97	94	94	99	94	98	99	98	99	94
82	70	81	78	80	80	80	80	80	80	81	80	80	81	81	81
82	81	81	81	88	80	80	80	79	81	81	81	81	80	81	71
60	64	78	75	74	72	66	70	64	60	60	60	71	72	67	63
63	67	60	60	81	81	81	81	81	81	81	80	78	75	64	81
82	81	81	81	81	80	81	81	81	81	81	81	81	81	81	81
81	81	80	69	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	80	81	81	81	81	81
81	81	81	81	81	82	81	81	81	81	81	81	82	82	81	82
81	81	81	76	64	67	72	63	73	72	63	60	60	60	70	91
87	67	64	73	60	60	68	66	60	60	60	60	60	61	60	60
63	60	60	60	60	77	62	62	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	64	60	62	60	60	62	61	60	60	60	63	60
60	60	60	60	64	85	92	94	91	82	75	66	66	64	72	71
69	65	66	73	64	63	60	61	68	73	60	60	63	60	62	66
68	68	77	80	77	74	62	60	60	65	74	77	65	89	97	96
91	100	98	83	66	82	60	64	64	81	88	93	90	94	93	90
81	61	60	66	60	60	66	85	92	94	96	98	96	99	94	94
84	86	88	88	88	89	68	71	74	82	82	84	86	81	80	60
60	60	60	61	60	68	80	82	84	84	84	84	84	80	82	81
82	81	81	82	83	81	79	78	81	80	83	83	72	75	80	77
77	81	77	72	75	72	64	77	66	61	78	73	65	64	68	71
67	69	67	69	71	70	69	70	71	70	68	66	66	60	60	63
73	66	66	62	67	67	62	76	75	76	79	90	80	61	68	61

%EOF

(86)

ENTER LOG DATE (DD/MM/YR) : 23/07/79

ENTER SITE CODE (5 CHARS) : CC204
ENTER USER CODE (4 CHARS) : 2855
ENTER JOB CODE (3 CHARS) : 270

DATA LOGGED :23 JULY 1979
LOGGER : DB-301/2b
SERIAL NUMBER : 1219
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

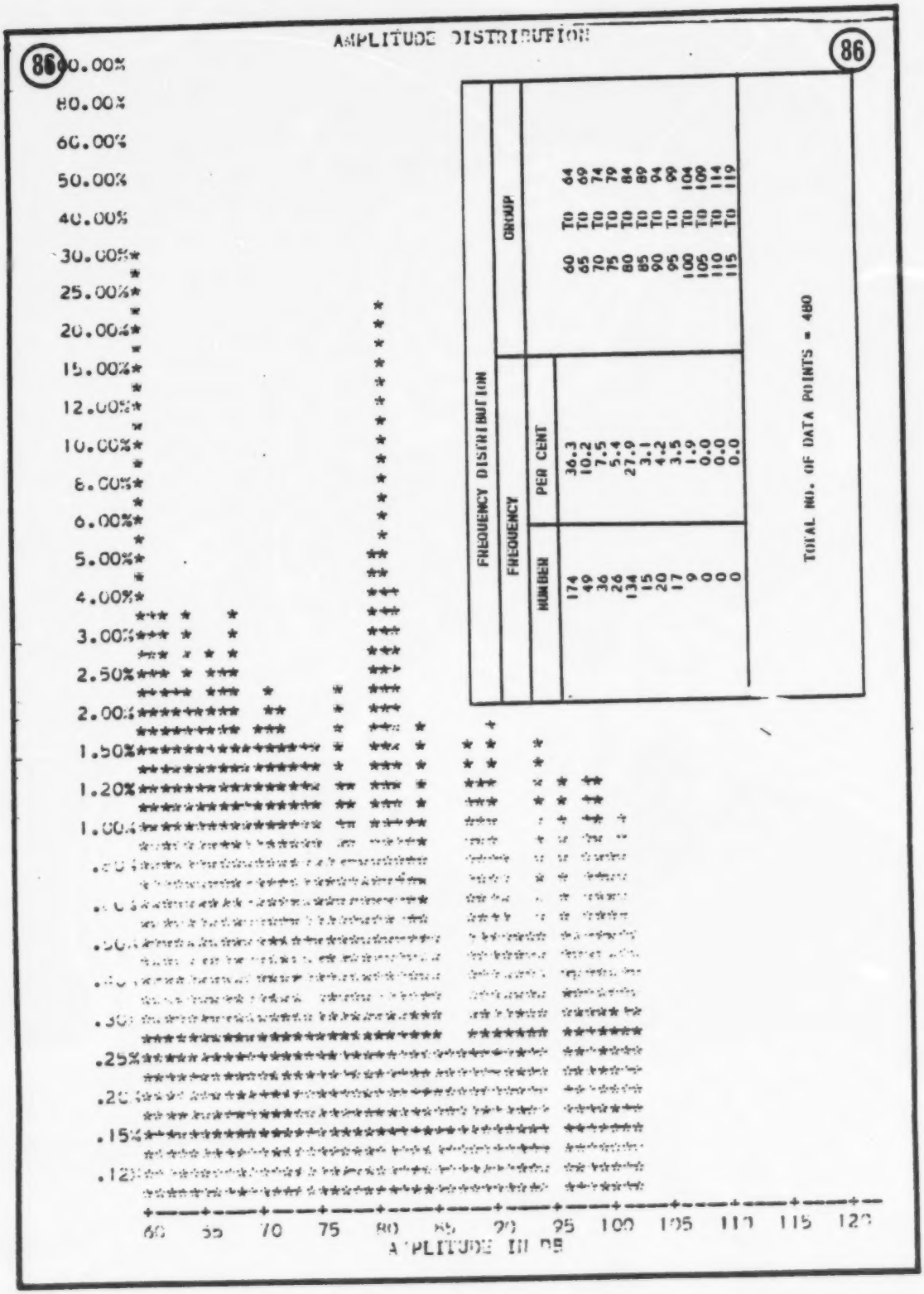
DATA ANALYZED : 17 SEPT 1979
SITE CODE : CC204
JOB CODE : 270
USER CODE : 2855
THRESHOLD : 80 DB
TOTAL SAMPLES = [illegible]
STANDBY TIME = [illegible]

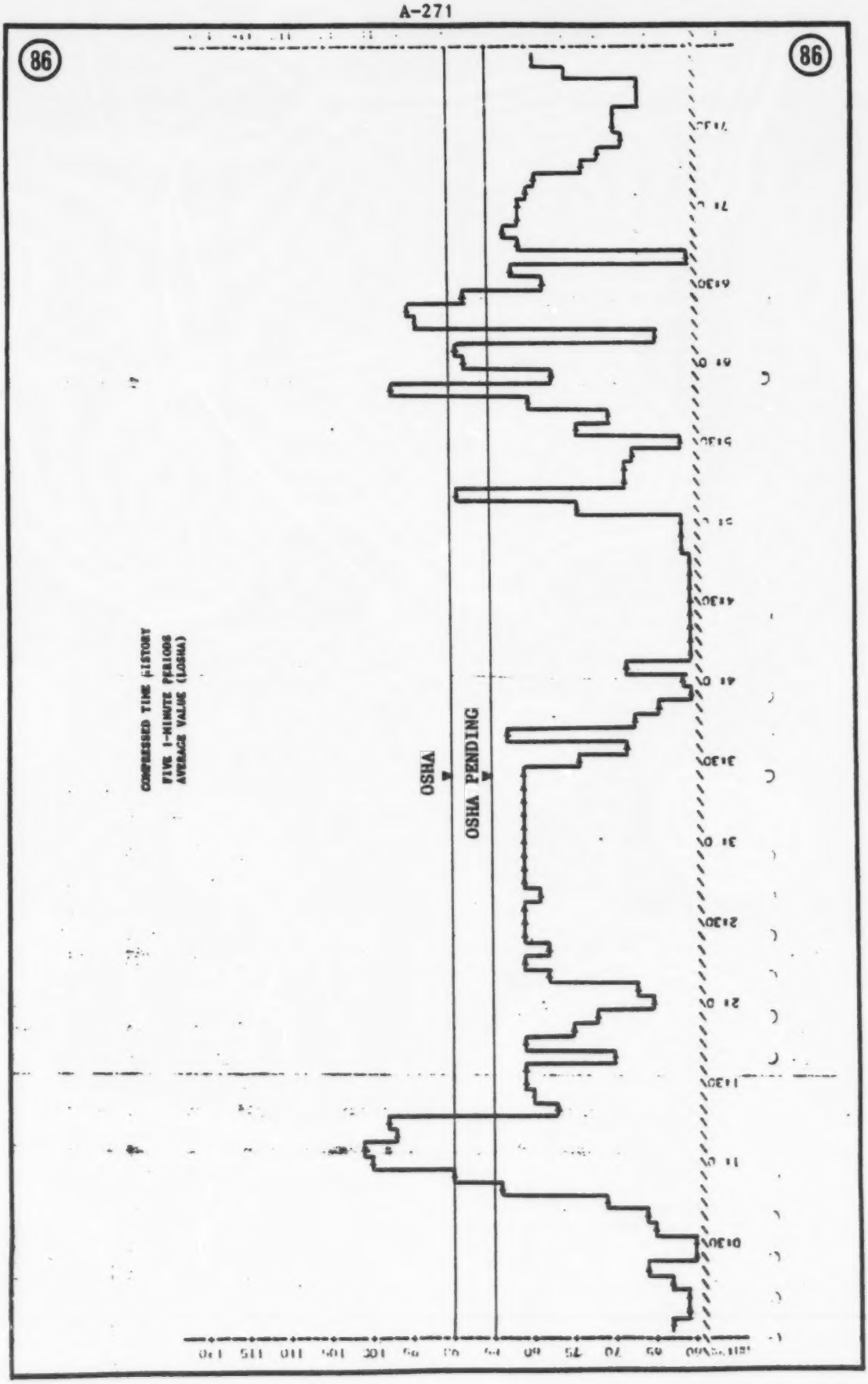
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING
TOUR TIME = 60 [illegible]
EXCHANGE (TRADE) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOSS		NOISE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	75.9	75.9	1.747	1.77
2	91.9	87.6	16.167	17.93
3	79.2	83.7	2.792	20.72
4	78.3	84.5	2.475	23.19
5	61.3	82.9	.235	23.43
6	82.6	82.9	4.605	28.03
7	86.7	83.6	7.709	35.99
8	74.9	82.9	1.537	37.53

MIN. COMP. = 60 DB
MAX. COMP. = 102 DB
ARITHMETIC MEAN = 72 DB
STD. DEVIATION = 12 DB
VARIANCE =143 DB


AMPLITUDE DISTRIBUTION
86
86
FREQUENCY DISTRIBUTION
GROUP
FREQUENCY
NUMBER
PER CENT
60 TO 64 174 36.3
65 TO 69 49 10.2
70 TO 74 36 7.5
75 TO 79 26 5.4
80 TO 84 134 27.9
85 TO 89 15 3.1
90 TO 94 20 4.2
95 TO 99 17 3.5
100 TO 104 9 1.9
105 TO 109 0 0.0
110 TO 114 0 0.0
115 TO 119 0 0.0
TOTAL NO. OF DATA POINTS = 480
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.25%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


86
86
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(87)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
1 26 80 1216 60 64 4 1
114 115200 480

60	60	60	60	60	63	68	60	60	60	60	61	67	63	64	75
70	81	78	81	80	75	77	77	77	76	79	78	78	93	95	90
98	91	83	85	85	85	90	91	92	91	91	86	88	96	87	83
76	85	88	88	76	69	65	70	64	63	63	65	66	68	75	81
75	74	65	68	70	69	76	70	82	64	82	90	93	90	84	91
98	103	101	101	97	94	95	94	93	96	94	95	94	93	94	93
88	91	97	92	101	105	102	105	103	99	98	106	102	104	104	104
95	99	104	104	100	105	103	101	104	103	103	99	105	103	103	96
94	94	94	94	95	94	99	102	95	93	90	92	93	94	94	93
94	95	93	94	96	107	102	103	104	100	101	104	101	100	99	102
102	100	101	99	99	100	99	101	99	99	99	99	95	94	94	96
94	93	100	102	97	94	89	72	90	93	94	94	97	104	100	106
106	103	105	103	102	101	101	98	103	101	105	104	95	94	94	97
100	95	104	93	95	95	100	100	104	103	97	96	103	103	99	107
104	101	100	87	96	104	101	104	102	101	100	102	101	101	100	99
101	101	106	105	105	105	104	103	100	96	94	94	95	93	93	95
93	94	92	94	95	94	104	101	105	105	100	99	100	100	106	103
101	99	101	101	101	101	101	102	106	108	103	94	99	109	106	102
97	95	96	60	66	60	60	60	60	60	60	60	60	60	61	60
60	60	60	65	61	60	60	60	60	60	61	61	60	60	60	61
61	67	62	65	62	88	95	94	92	94	103	104	106	104	106	102
101	101	107	109	109	107	103	104	109	107	102	102	106	109	106	97
93	104	98	104	107	105	100	95	95	96	96	94	105	108	98	101
100	104	103	101	104	101	99	98	101	99	99	101	106	103	102	105
103	104	103	101	95	96	95	95	95	93	94	94	97	100	107	104
102	102	105	106	106	102	84	75	92	95	94	63	60	66	80	103
99	104	102	105	100	104	103	107	97	99	103	98	95	95	94	94
97	95	107	101	109	105	102	111	111	110	105	104	103	102	102	108
101	101	104	104	102	105	110	108	107	108	111	111	103	96	95	95
95	76	67	64	67	70	72	60	61	71	81	84	83	90	91	92

&EOF

ENTER LOG DATE (DD/MM/YR) : 21/08/79
ENTER SITE CODE (5 CHARS) : 32950
ENTER USER CODE (4 CHARS) : 7720
ENTER JOB CODE (3 CHARS) : 281

DATA LOGGED :21 AUG 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1216
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

DATA ANALYZED : 25 SEPT 1979
SITE CODE : 32950
JOB CODE : 281
USER CODE : 7720
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0:29

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	OSHA		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	84.1	84.1	5.510	5.51
2	97.5	93.5	35.236	40.75
3	99.2	93.9	44.800	85.55
4	100.5	97.4	53.782	139.33
5	100.1	98.0	51.040	190.37
6	99.9	98.4	49.143	239.51
7	100.6	98.7	54.490	294.00
8	102.5	99.3	70.238	364.24

MIN. COMP. = 60 DB MAX. COMP. = 111 DB
ARITHMETIC MEAN = 92 DB
STD. DEVIATION = 15 DB
VARIANCE =225 DB

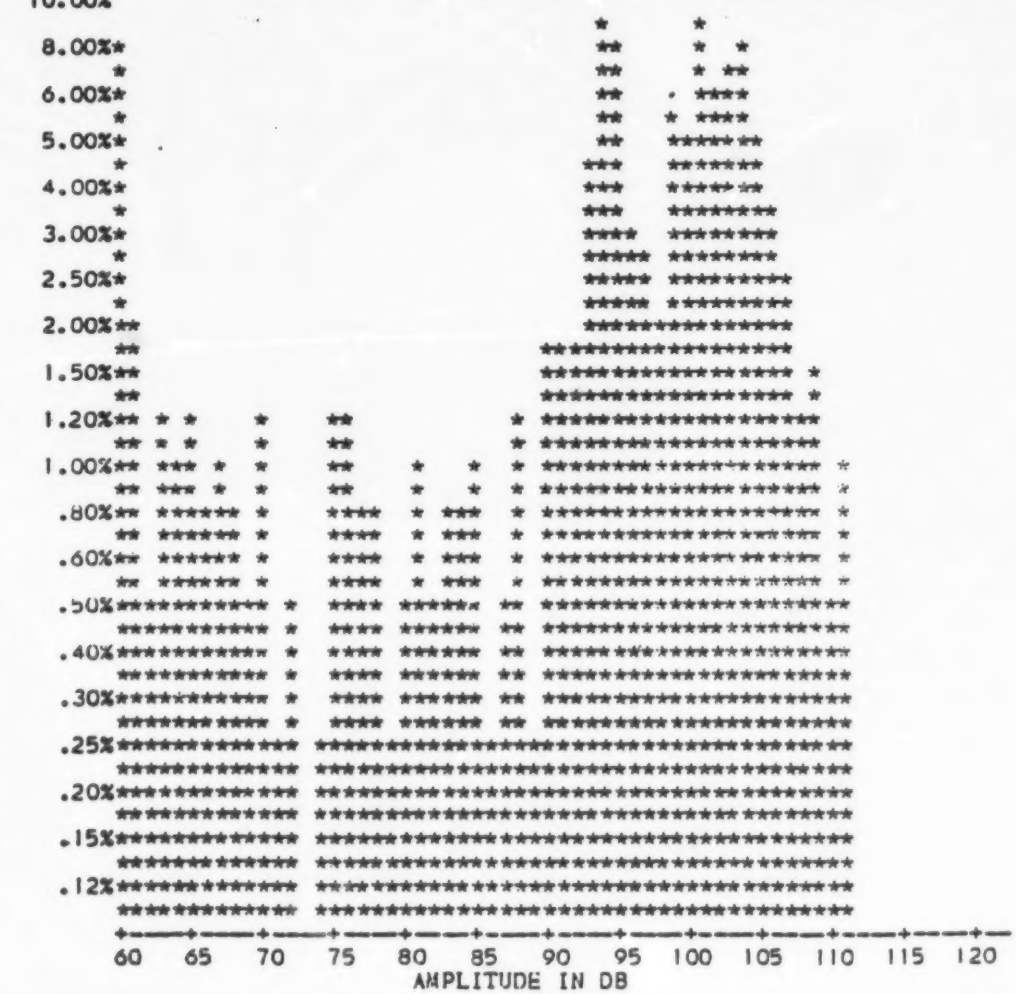
(87)

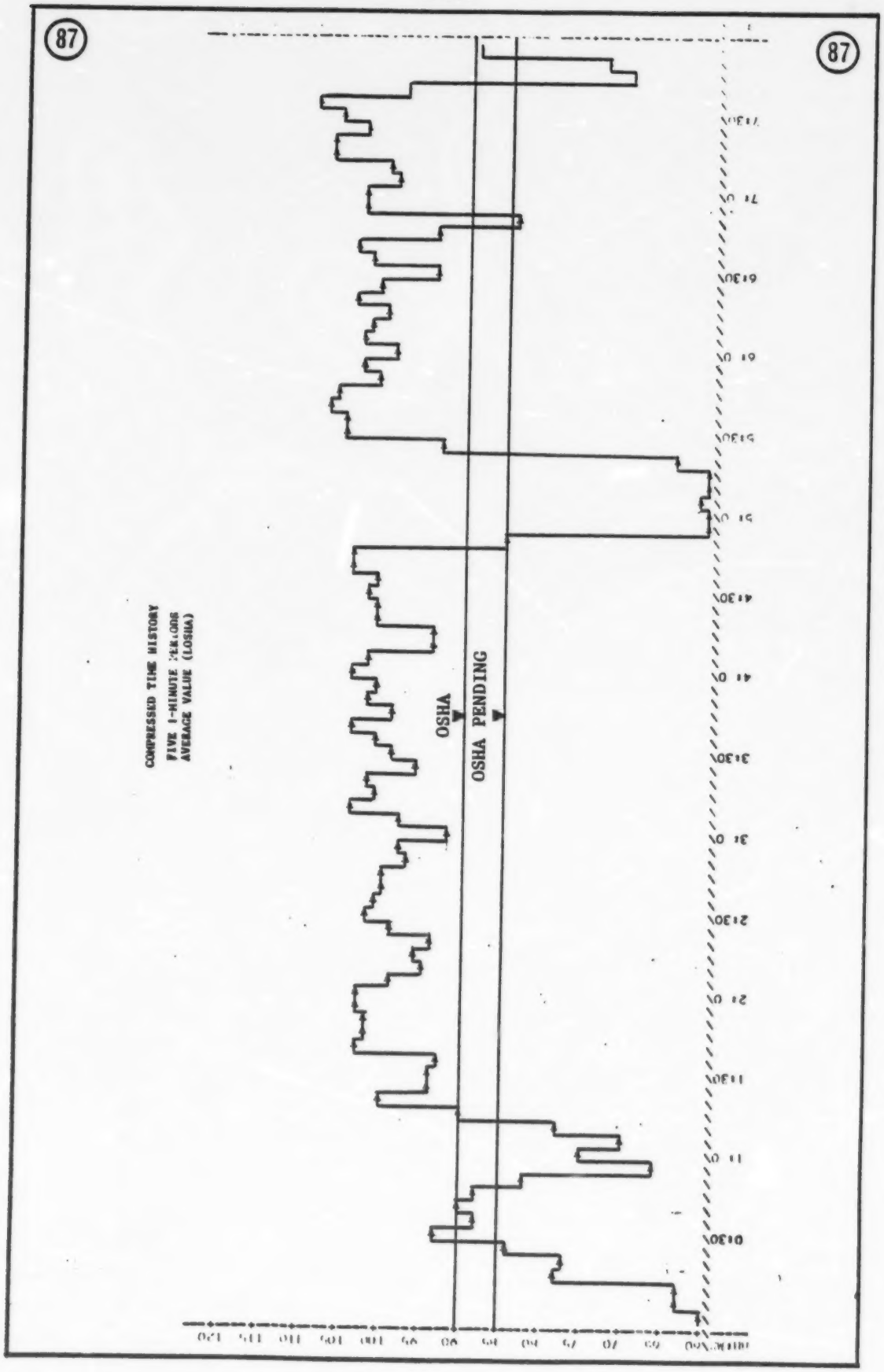
AMPLITUDE DISTRIBUTION

87 87

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
52	10.8	60 TO 64
17	3.5	65 TO 69
9	1.9	70 TO 74
17	3.5	75 TO 79
14	2.9	80 TO 84
13	2.7	85 TO 89
74	15.4	90 TO 94
84	17.5	95 TO 99
140	29.2	100 TO 104
54	11.3	105 TO 109
6	1.3	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




87
87
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
7:0
7:30

88

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1225 60 64 4 1

134 115200 480

65	78	72	65	73	77	78	74	67	78	89	90	100	99	100	100
99	92	91	93	96	100	98	97	99	98	97	99	100	97	98	98
97	98	97	90	72	70	60	60	61	60	63	76	64	62	68	70
71	81	88	93	95	84	64	61	64	64	67	67	61	63	67	60
64	60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	60	[illegible]	60	60	60	60	60	[illegible]	60	60	[illegible]	[illegible]	[illegible]	77	[illegible]
64	60	[illegible]	60	62	63	67	60	60	60	60	67	[illegible]	[illegible]	[illegible]	[illegible]
60	60	66	73	67	60	64	65	69	63	70	71	66	68	63	65
60	60	71	66	62	65	[illegible]	71	[illegible]	[illegible]	73	71	[illegible]	[illegible]	67	[illegible]
61	64	71	66	67	62	67	66	73	61	79	73	[illegible]	[illegible]	[illegible]	[illegible]
81	78	80	80	77	79	84	73	75	85	85	82	80	81	80	80
79	82	[illegible]	82	85	85	87	82	82	[illegible]	82	87	[illegible]	[illegible]	[illegible]	[illegible]
85	85	87	87	89	90	89	90	89	89	90	92	93	97	101	[illegible]
104	104	105	104	105	104	103	101	97	92	93	94	103	94	94	93
94	90	92	89	93	91	90	93	93	92	90	100	97	96	95	97
96	90	91	92	92	94	92	107	110	110	109	111	111	110	112	111
106	95	90	98	108	116	116	113	113	110	91	96	103	103	110	112
113	114	109	91	90	92	90	91	90	90	91	92	92	89	89	90
91	91	91	91	90	90	89	90	91	91	90	89	90	90	90	90
90	88	89	85	91	88	97	99	90	90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
99	100	100	100	100	100	100	100	101	101	99	95	83	88	99	[illegible]
94	93	97	86	85	88	92	91	110	110	110	106	107	107	101	88
103	107	108	107	108	105	107	100	85	85	85	92	93	108	108	106
84	85	74	76	78	82	82	84	97	90	86	79	86	87	87	85
95	108	107	107	103	110	93	112	110	113	106	114	107	95	90	91
88	90	91	93	91	89	83	84	83	84	83	86	92	66	64	69
77	68	71	75	98	89	89	95	88	86	60	60	61	61	64	78
64	82	60	68	60	60	62	61	66	70	64	60	63	66	61	60
62	60	65	89	91	90	90	91	93	90	92	91	95	96	96	96
97	100	100	98	99	97	98	90	70	65	70	84	86	84	73	82

EOF

ENTER LOG DATE (DD/MM/YR) : 19/07/79
ENTER SITE CODE (5 CHARS) : CC202
ENTER USER CODE (4 CHARS) : 7670
ENTER JOB CODE (3 CHARS) : 260

DATA LOGGED :19 JULY 1979
LOGGER : DC-301/26
SERIAL NUMBER : 1225
BASELINE : [illegible]
DYNAMIC RANGE : [illegible]
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

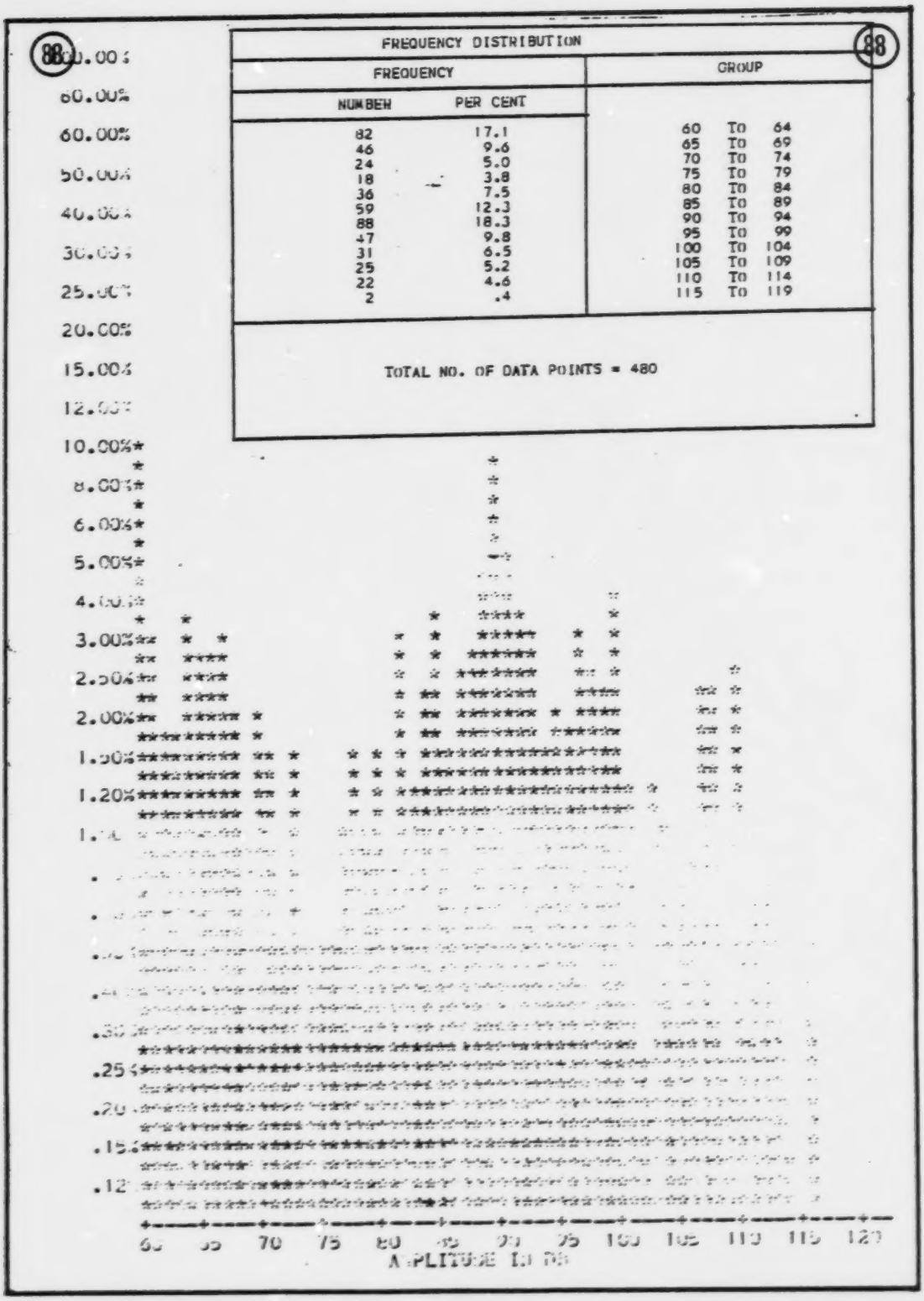
DATA ANALYZED : 14 SEPT 1979
SITE CODE : CC202
JOB CODE : 260
USER CODE : 7670
THRESHOLD : [illegible]
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
LOG DOSE = [illegible]
EXCHANGE (DOUBLING) RATE = [illegible]
THRESHOLD (CUTOFF) LEVEL = [illegible]
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

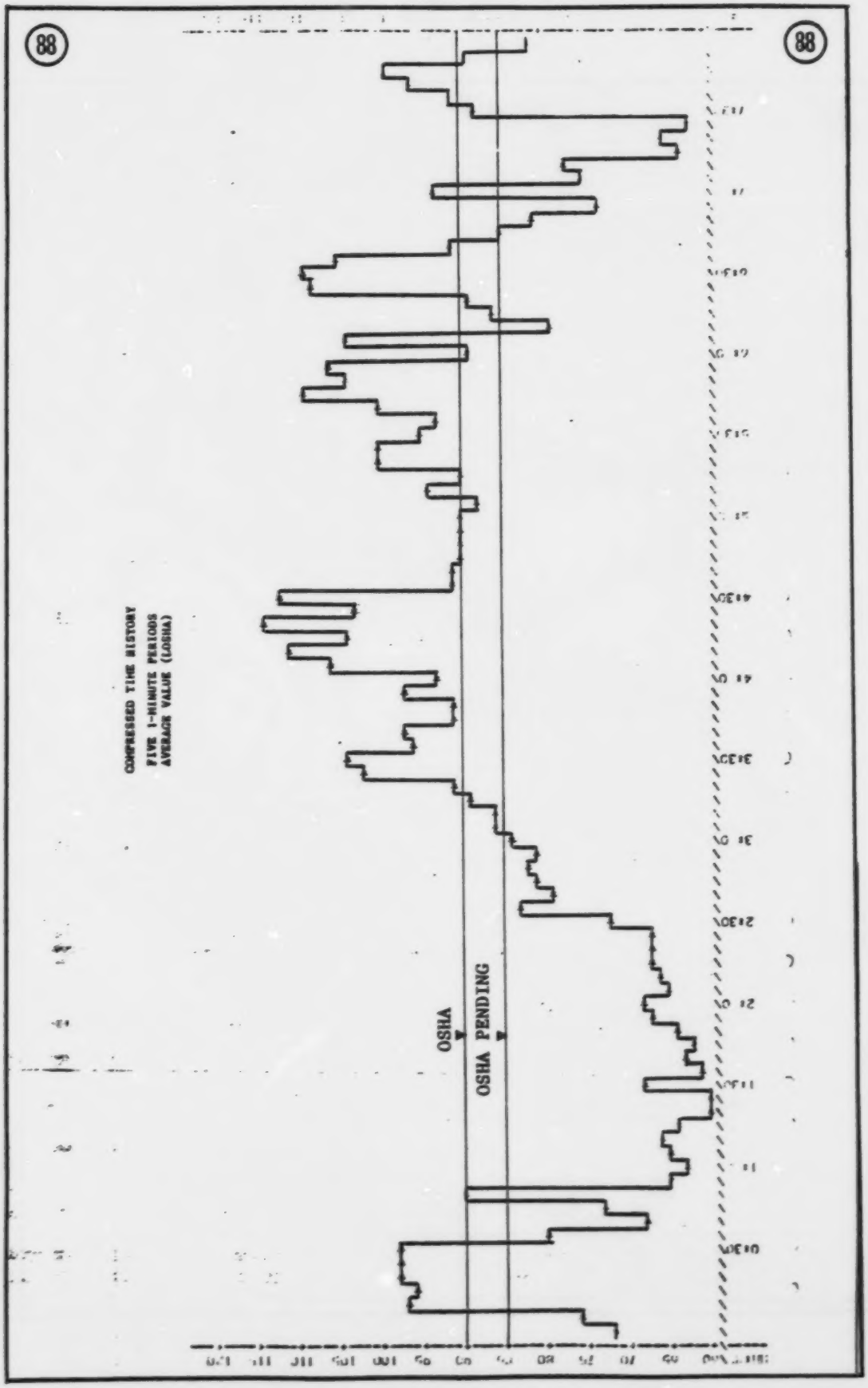
TIME HOUR	LOGMA CURRENT	LOGMA CUMULATIVE	DOSE CURRENT	DOSE CUMULATIVE
1	91.9	91.9	16.321	16.32
2	64.1	87.1	.345	16.67
3	76.3	84.9	[illegible]	[illegible]
4	95.6	89.4	27.229	45.76
5	104.6	96.0	97.641	143.40
6	100.2	96.9	51.119	194.52
7	[illegible]	97.4	48.535	242.06
8	89.3	96.7	11.314	254.37

MIN. COMP. = 66 DB
MAX. COMP. = 116 DB
ARITHMETIC MEAN = 84 DB
STD. DEVIATION = 16 DB
VARIANCE = [illegible] DB



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
82	17.1	60 To 64
46	9.6	65 To 69
24	5.0	70 To 74
18	3.8	75 To 79
36	7.5	80 To 84
59	12.3	85 To 89
88	18.3	90 To 94
47	9.8	95 To 99
31	6.5	100 To 104
25	5.2	105 To 109
22	4.6	110 To 114
2	.4	115 To 119

TOTAL NO. OF DATA POINTS = 480


88
88
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(89)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1224 60 64 4 1

244 115200 480

63	71	66	74	67	72	71	63	75	74	61	74	74	75	78	71
70	67	100	102	101	100	101	101	95	90	93	94	98	100	100	99
100	99	98	99	100	99	99	95	99	98	96	85	78	65	69	60
60	60	61	60	62	62	63	65	60	58	66	97	95	64	62	61
67	63	65	62	63	63	61	65	65	60	61	61	62	60	64	61
67	70	60	66	60	60	60	70	60	60	60	60	60	60	60	60
60	63	60	60	60	78	65	60	60	60	60	60	66	65	67	67	63
60	60	61	63	70	75	65	64	60	73	72	73	76	61	60	66
68	77	75	82	73	75	70	71	71	77	66	70	71	75	72	7
72	74	72	68	69	68	73	67	62	71	72	65	74	70	70	66
76	61	60	60	60	59	60	62	61	61	82	83	80	82	80	75
74	66	67	62	73	80	80	70	80	82	82	83	84	87	86	82
82	83	83	89	86	90	87	87	84	86	88	87	88	90	87	89
86	89	90	91	95	100	98	98	100	99	101	99	100	99	98	97
94	91	93	93	102	94	93	93	93	90	91	90	94	93	93	95
95	93	99	100	98	97	95	100	94	92	91	91	92	93	95	105
106	106	104	107	107	107	108	105	92	88	89	89	105	109	108	109
109	98	91	92	96	95	106	104	109	110	90	88	88	90	90	90
91	91	93	91	91	89	90	91	90	96	98	88	88	87	88	89
91	91	91	91	89	90	90	90	90	89	89	90	95	93	100	97
90	90	88	91	93	106	113	114	112	98	115	116	115	98	91	99
115	115	116	117	117	109	92	111	117	116	114	91	95	92	97	100
117	117	117	115	116	116	99	99	114	115	115	115	114	112	113	104
91	92	91	98	109	117	115	111	95	72	64	73	80	81	83	85
89	90	82	78	86	84	85	85	109	113	114	115	114	108	96	115
110	113	111	116	90	89	90	90	89	90	90	91	89	89	76	85
85	85	79	84	72	66	79	75	70	68	70	68	69	88	96	91
82	60	65	64	60	60	61	64	61	85	72	65	60	61	63	65
73	63	61	60	61	60	60	60	62	63	77	90	91	91	91	91
93	91	92	93	95	98	93	97	97	100	99	98	98	97	96	86

>EOF

(89)

ENTER LOG DATE (DD/MO/YR) : 19/07/79
ENTER SITE CODE (5 CHARS) : CC202
ENTER USER CODE (4 CHARS) : 4126
ENTER JOB CODE (3 CHARS) : 261

DATA LOGGED :19 JULY 1979
LOGGER : [illegible]-301/26
SERIAL NUMBER : 1224
BASELINE : 60 DB
DYNAMIC RANGE : 94 DB
SAMPLING RATE : 4/SEC
TEST DURATION = [illegible]

DATA ANALYZED : 14 SEPT 1979
SITE CODE : CC202
JOB CODE : 261
USER CODE : 4126
THRESHOLD : [illegible] DB
TOTAL SAMPLES = 115200
STANDBY TIME = [illegible]

TIME HISTORY ANALYSIS

>DISK EARTHQUAKE LEVEL (L.E.L.) CALCULATIONS
THE BASED ON THE POLLUTION
[illegible]
[illegible]
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 [illegible]

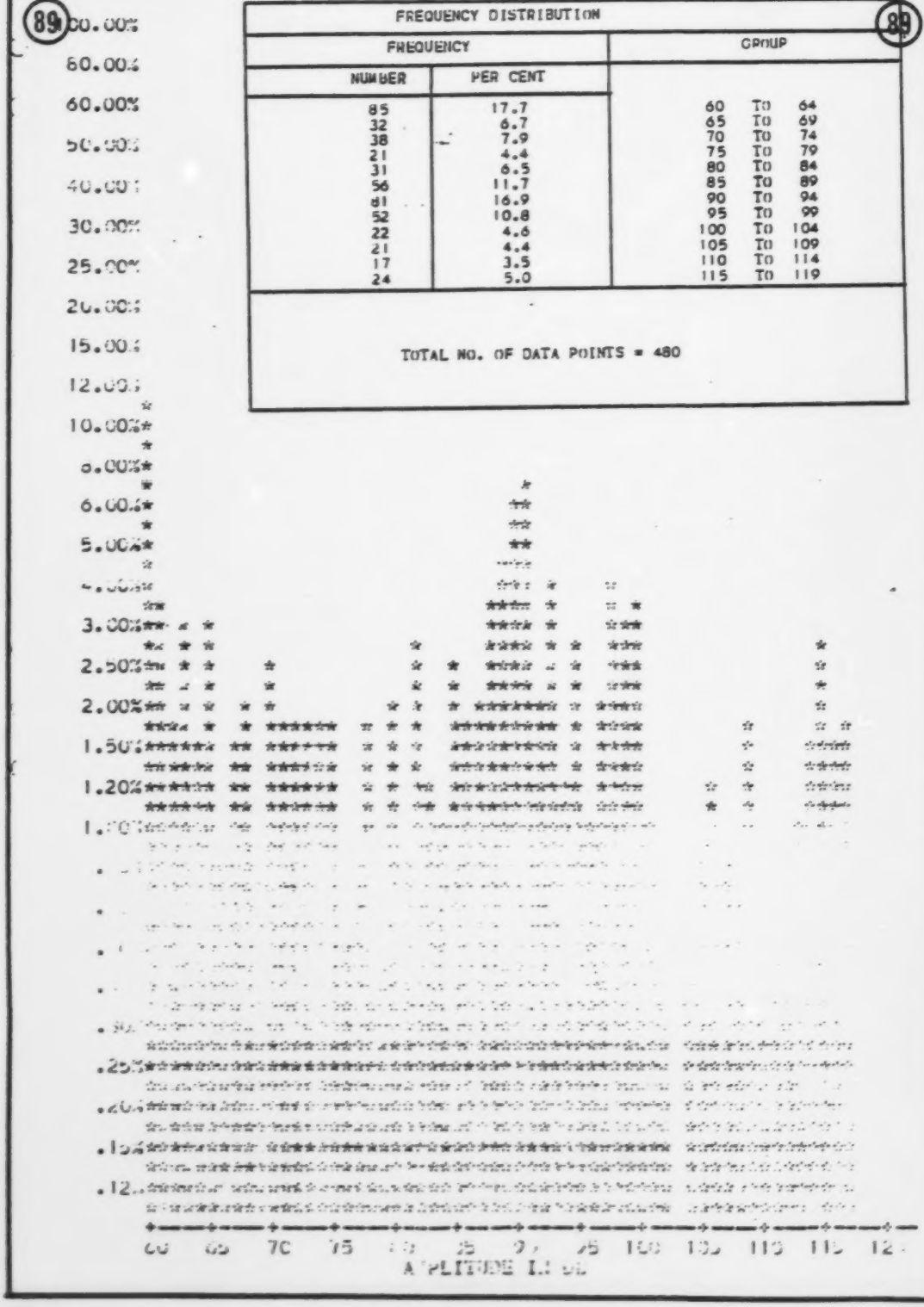
TIME HOUR	LEVEL CURRENT	LEVEL CUMULATIVE	TIME CURRENT	TIME CUMULATIVE
1	93.0	93.0	18.873	18.87
2	89.0	91.1	2.801	17.32
3	75.5	85.8	1.671	21.00
4	92.7	84.2	18.074	39.07
5	100.6	92.9	53.994	93.06
6	106.7	99.0	146.780	239.86
7	106.7	100.7	125.857	365.72
8	98.6	99.9	10.240	376.00

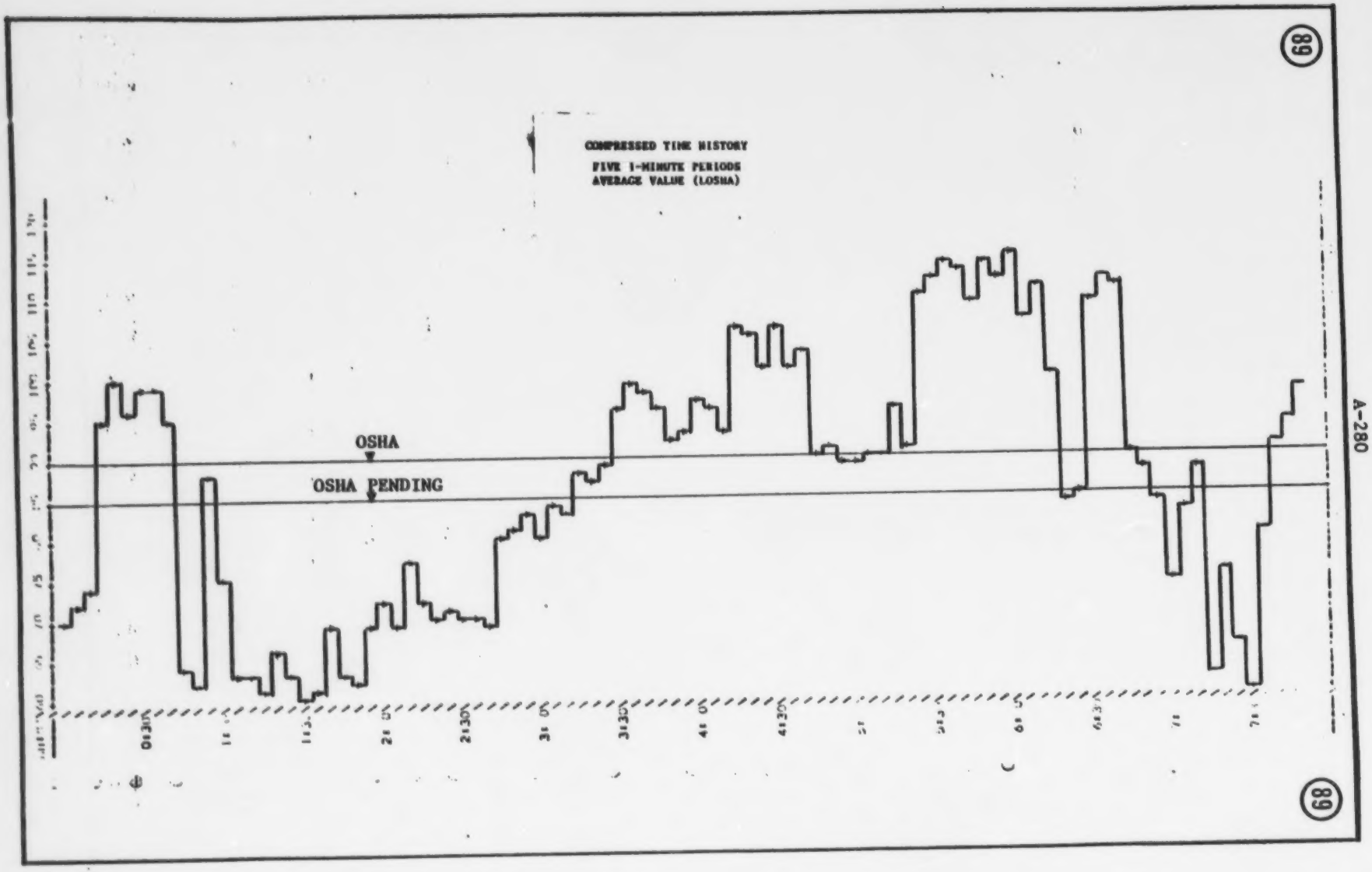
MIN. COMP. = 60 DB
MAX. COMP. = 117 DB
ARITH. MEAN = [illegible]
STD. DEVIATION = 17 DB
VARIANCE = [illegible] DB

89

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
85	17.7	60 To 64
32	6.7	65 To 69
38	7.9	70 To 74
21	4.4	75 To 79
31	6.5	80 To 84
56	11.7	85 To 89
81	16.9	90 To 94
52	10.8	95 To 99
22	4.6	100 To 104
21	4.4	105 To 109
17	3.5	110 To 114
24	5.0	115 To 119
TOTAL NO. OF DATA POINTS = 480		

89

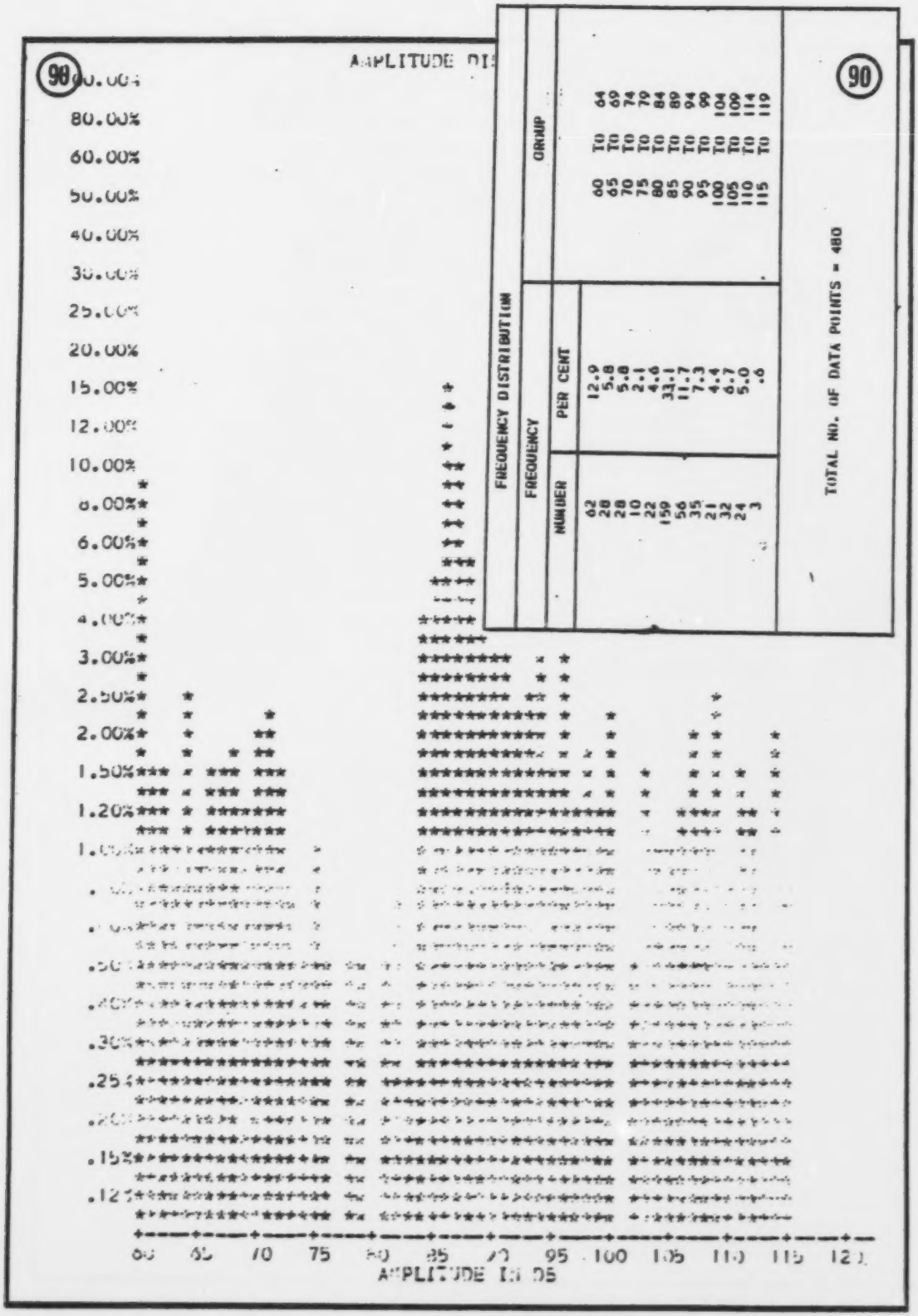


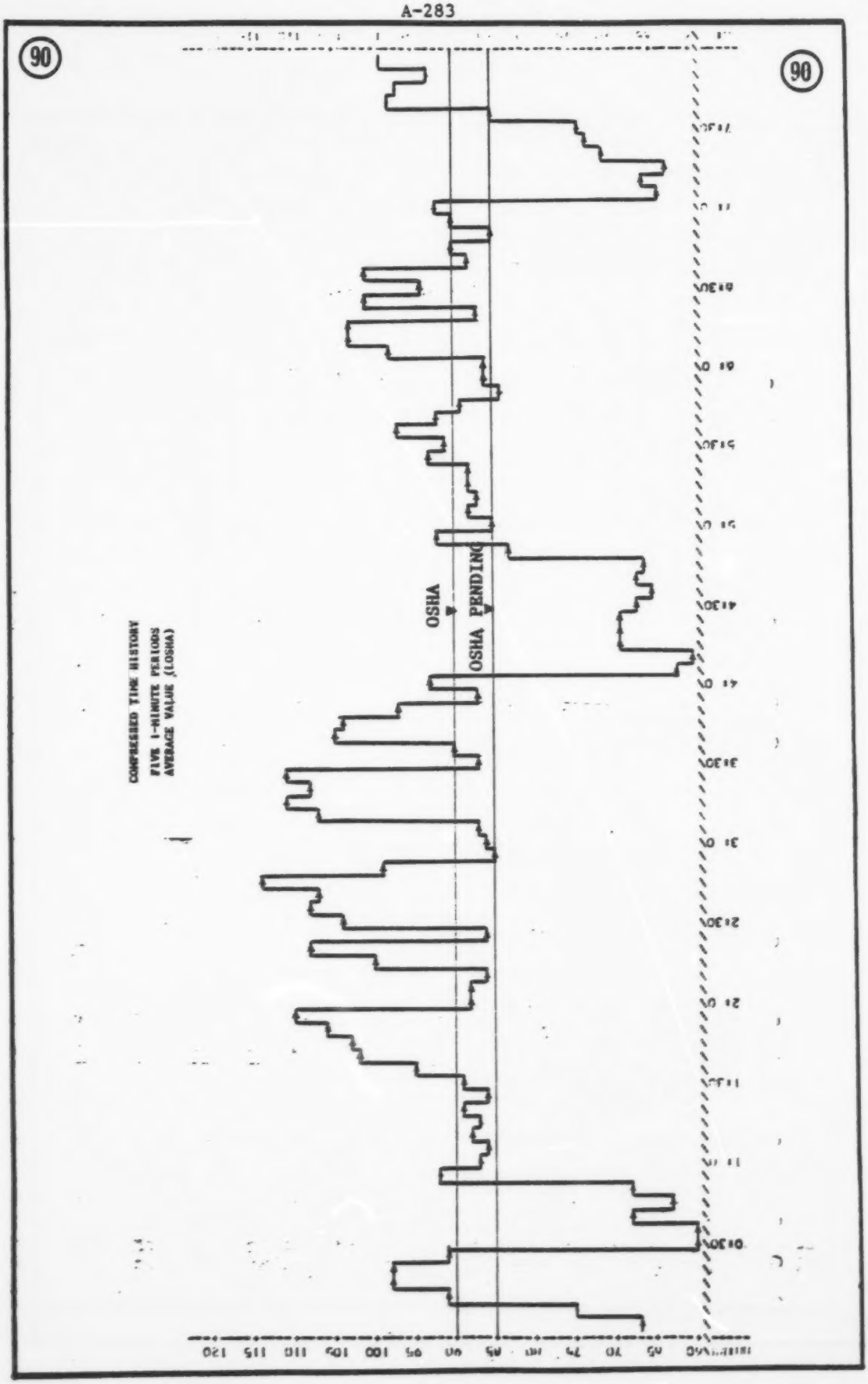

COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
68
68

(90)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1221  60  64   4   1
     41      115200  480
 71  70  63  64  62  66  68  74  82  71  82  91  91  94  94  94
 93  98 102 100 100  98  97 100  96  98  96  75  71  64  60  60
 60  61  60  60  61  60  60  60  63  66  71  65  72  63  62  60
 60  68  65  61  66  70  71  70  93  96  89  93  89  87  88  86
 87  85  88  90  90  86  86  87  90  93  96  87  91  88  90  87
 92  91  89  86  87  87  84  86  84  88  85  87  89  88  94  94
 96  95  96  94  99  93 108 107  95  99  97  92 109 109 109 111
108  92  84  86 106 114 115 108  86  88  86  91  88  86  93  88
 86  86  86  86  85  84  86  85  86  87 102 108 112 112 109  99
 85  87  88  85  86  87 104 107 107 104  94  86 105 110 110 111
113 105  86 100 111 114 114 114 115 114 109  97  89  86  86  85
 84  87  84  85  85  86  87  86  88  84  86  85  86  91 112 114
 90  86  97 110 112 111 111 112 109  97  95 111 113 114 115 114
100  86  86  85  85  86  90  84  87  86  86  98 106 109 107 103
 87  87  89 109 107 107 107  94  86  86  87  89  86  85  86  87
 93  94  91  96  86  67  60  60  60  60  60  60  60  60  60  72
 73  67  63  62  65  71  70  66  70  70  64  60  69  75  64  64
 62  73  67  71  64  60  60  64  65  60  69  71  98  89  66  60
 61  68  60  60  60  87  91  93  96  86  92  87  86  85  84  84
 84  80  84  86  88  88  87  87  86  87  87  89  87  85  90  91
 96  92  84  82  89  81  86  78  98 100  95  95  90  87  75  82
 87  88  99 105 100  72  79  89  90  90  86  92  91  85  85  84
 83  85  84  86  86  86  87  87  86  87  86  88  85  89  90  87
100 106 106  92  87 103 109 109 106 103  90  86  86  86  87  87
 87  86  89 105 107  98 100  91  97  87  95 104 108  99  89  88
 86  87  87  91  86  98  90  88  92  91  85  84  84  84  86  86
 93  88  89  93  92  86  90  96  90  71  60  60  60  60  61  64
 60  70  89  60  60  68  63  60  64  74  67  76  86  81  82  70
 67  73  76  72  68  72  78  75  67  72  81  95  93  94  96  99
103  94  84 103  97  96  97  86  90  99  98 103 104  96  94  79
$EOF


ENTER LOG DATE (DD/MM/YR) : 17/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 0850
 ENTER JOB CODE (3 CHARS) : 261

    DATA LOGGED :17 JULY 1979          DATA ANALYZED : 13 SEPT 1979
         LOGGER : 00-301/26                 SITE CODE : CC210
  SERIAL NUMBER : 1221                      JOB CODE : 261
       BASELINE : 50 DB                     USER CODE : 0850
  DYNAMIC RANGE : 64 DB                   THRESHOLD : 50 DB
  SAMPLING RATE : 4/SEC                TOTAL SAMPLES = 115200
  TEST DURATION = 480 : 0               STARTAY TIME = 08:00:00

                TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 8 HR / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 50 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME          LEVEL                    DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      88.8      88.8          10.627      10.63
   2      99.4      95.9          46.301      56.93
   3     103.0      99.4          85.066     142.02
   4     103.5     100.9          85.135     227.16
   5      81.1      99.4           3.633     230.79
   6      89.9      98.5          12.296     243.09
   7      96.9      98.3          32.447     275.53
   8      90.5      97.7          13.412     288.95
MIN. COMP. = 60 DB                MAX. COMP. = 115 DB
ARITHMETIC MEAN = 95 DB
STD. DEVIATION = 14 DB
VARIANCE =225 DB
```

(90)


AMPLITUDE DI
90
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
10.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
.30%
.25%
.15%
FREQUENCY DISTRIBUTION
GROUP
FREQUENCY
PER CENT
NUMBER
60 TO 64 12.9 62
65 TO 69 5.8 28
70 TO 74 5.8 28
75 TO 79 2.1 10
80 TO 84 4.6 22
85 TO 89 33.1 159
90 TO 94 11.7 56
95 TO 99 7.3 35
100 TO 104 4.4 21
105 TO 109 6.7 32
110 TO 114 5.0 24
115 TO 119 .6 3
TOTAL NO. OF DATA POINTS = 480
90
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


90
90
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
01:30
11
21:30
21
31:30
31
41:30
41
51:30
51
61:30
61
71:30
120
115
110
105
100
95
90
85
80
75
70
65

91

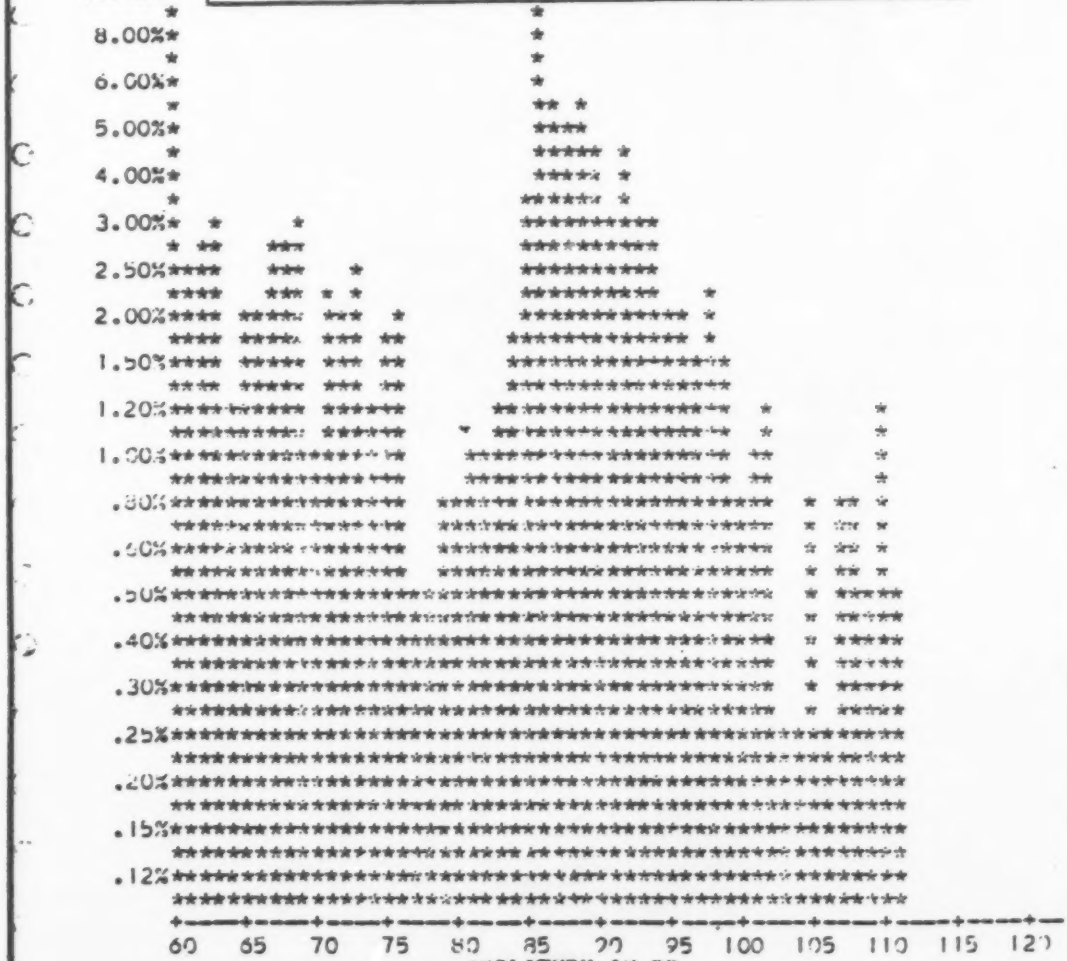
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1219   60   64    4    1
      19     115200  480
  60  60  60  60  66  72  62  60  60  60  65  60  60  60  60  60
  67  66  74  73  76  68  63  61  69  67  63  73  67  69  60  60
  61  61  60  63  63  60  62  63  65  70  72  62  65  90  91  91
  92  91  93  93  94  90  92  94  92  92  91  94  95  69  68  73
  81  82  83  84  96  96  95  99 102 101  97  98  99 101  97  98
  98  79  69  60  71  69  60  64  60  60  60  60  65  70  62  71
  64  60  65  60  63  68  68  78  74  62  60  61  61  60  62  60
  60  60  64  60  60  60  69  64  62  60  60  60  60  60  60  60
  66  77  66  63  60  60  60  65  60  60  63  60  74  60  66  66
  71  62  67  72  69  75  65  67  70  69  75  67  63  68  73  73
  72  76  74  89  93  96  87 100  86  86  92  87  84  80  81  85
  82  82  85  84  81  88  92 102  95  88  91  89  89  90  92  96
  91  89  87  86  89  91  91  98  97  88  90  90  89  89  89  88
  88  89  89  86  86  84  90  90  93  92  94  98  91  60  83  95
  92  93  92  90  92  85  83  86  86  88  85  85  86  86  87  86
  87  87  86  86  86  86  87  86  87  92  92  93  94  94  95  98
  91  94  92  96  92  89  97  98  94  86  98 100 101  99  85  87
  89  90  87 102 108 109 108 102  95  89  87  86  86  85  85  87
  86  86  87  86  86  86  89  87  87  91  89  87  87  86  91  92
  97  93  81  75  71  61  61  62  60  63  60  62  68  76  69  68
  63  67  76  71  77  61  66  61  69  71  72  64  71  73  67  60
  60  60  75  74  95 100 104  99  95  90  93  90  90  90  90  90
  89  89  87  85  84  90  88  86  88  87  86  86  86  94 103  93
 101  87  86  86  96 102  99  85  85  88  88  87 107 111 107  88
  86 105 110 106  86  85  88  93  89  88 105 110 111 110  97  93
  93 105  89 107 108 110 109 110  86  89  86  92  87  89  94  87
  88  89  89  93  86  83  83  84  84  86  85  85  88  94  99  96
  90  75  73  60  62  66  67  60  63  67  61  60  82  95  90  76
  73  69  73  68  72  76  68  72  75  95  91  78  76  71  67  75
  79  79  80  70  66  68  65  76  80  73  72  71  69  88  94  98
%EOF


ENTER LOG DATE (DD/MM/YR) : 12/07/79
ENTER SITE CODE (5 CHARS) : CC231
ENTER USER CODE (4 CHARS) : 0850
 ENTER JOB CODE (3 CHARS) : 261


   DATA LOGGED :12 JULY 1979          DATA ANALYZED : 12 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : CC231
 SERIAL NUMBER : 1219                        JOB CODE : 261
      BASELINE : 60 DB                      USER CODE : 0850
 DYNAMIC RANGE : 54 DB                      THRESHOLD : 80 DB
 SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
 TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 0: 4

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                        %DOSE
HOUR    CURRENT  CUMULATIVE        CURRENT  CUMULATIVE
   1      82.7      82.7           4.526      4.53
   2      88.3      86.0           9.906     14.43
   3      81.2      84.7           3.673     18.11
   4      90.7      86.7          13.731     31.84
   5      94.7      89.2          24.129     55.97
   6      87.4      88.9           8.713     64.68
   7     100.7      92.3          55.183    119.87
   8      84.6      91.7           5.950    125.82
MIN. COMP. =  60 DB              MAX. COMP. = 111 DB
ARITHMETIC MEAN =  80 DB
STD. DEVIATION =  14 DB
VARIANCE =196 DB
```

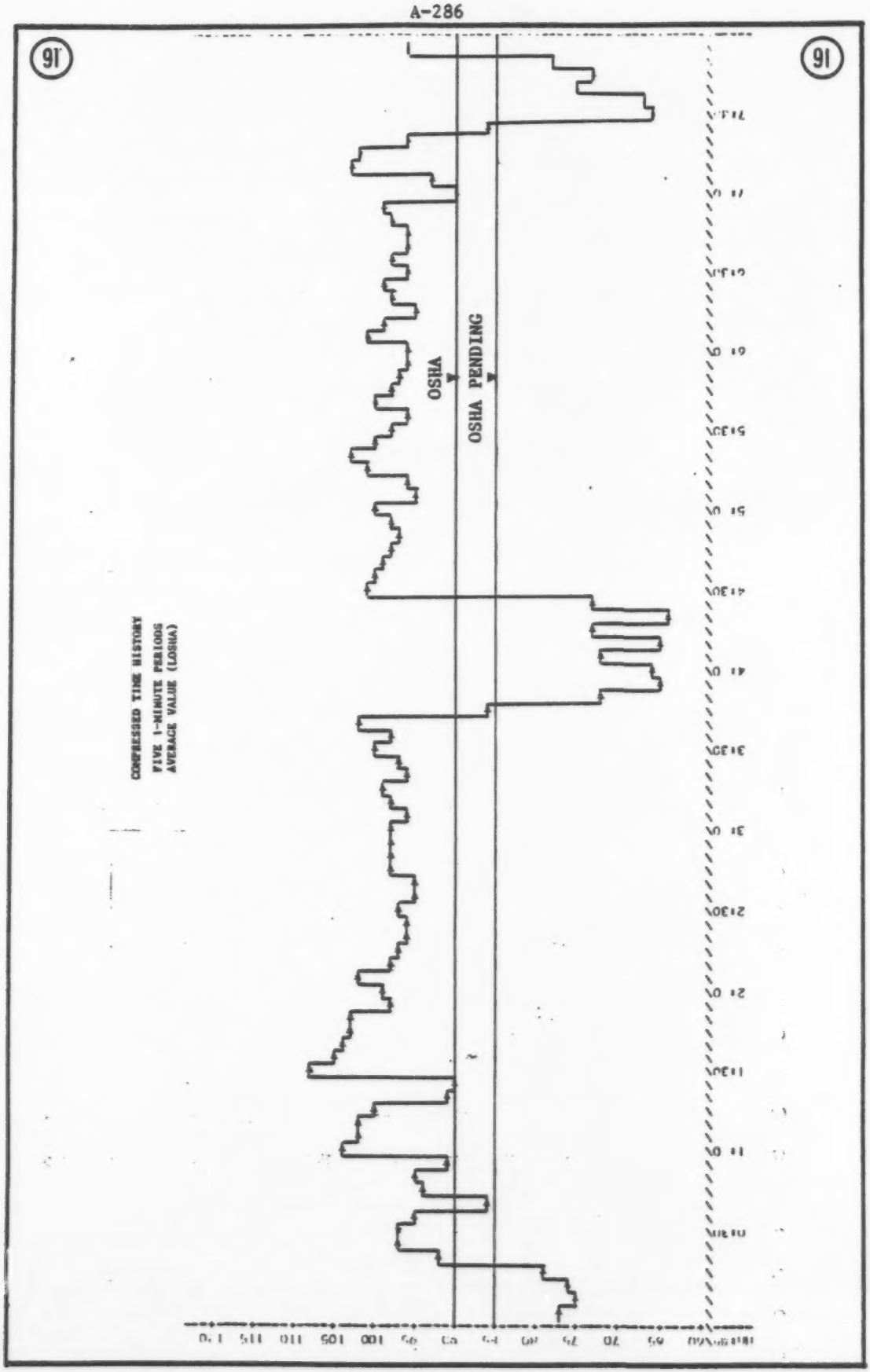
AMPLITUDE DISTRIBUTION

FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
93	19.4	60 To 64
50	10.4	65 To 69
36	7.5	70 To 74
22	4.6	75 To 79
23	4.8	80 To 84
114	23.8	85 To 89
72	15.0	90 To 94
37	7.7	95 To 99
14	2.9	100 To 104
12	2.5	105 To 109
7	1.5	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




16
16
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(92)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

(92)

```
  1  26  80  1218   60   64    4    1
  71936      59136  246
 60  60  66  60  61  60  60  61  60  60  62  66  77  75  70  60
 63  68  70  68  68  78  67  72  69  67  70  71  67  76  66  61
 67  60  60  60  60  60  60  65  68  62  60  63  60  74  90  89
 89  89  91  90  89  90  99 100 100 101  98 100 101  98  96  94
 95  93  93  96  94  94  90  94  94  95  90  92  92  90  91  79
 67  62  75  62  62  78  73  63  66  68  70  60  60  60  60  60
 60  60  62  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  61  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  61  60
 63  66  71  67  60  60  60  60  60  60  60  61  60  60  60  60
 60  60  78  91  94  94  84  90  88  91  95  94  95  88  82  86
 91  94  93  93  87  87  94  86  82  92  95  68  68  90  95  95
 95  93  89  90  99  97  96  98  93  93  82  63  82  78  61  62
 69  68  84  88  73  60  61  60  64  60  60  60  60  60  60  64
 60  60  60  65  60  60  60  60  60  60  60  61  63  68  62  64
 60  73  60  60  67  64  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
%EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 27/07/79
ENTER SITE CODE (5 CHARS) : 20065
ENTER USER CODE (4 CHARS) : 7960
 ENTER JOB CODE (3 CHARS) : 010
```

```
   DATA LOGGED :27 JULY 1979          DATA ANALYZED : 20 SEPT 1979
        LOGGER : DB-301/26                SITE CODE : 20065
 SERIAL NUMBER : 1218                      JOB CODE : 010
      BASELINE : 60 DB                    USER CODE : 7960
 DYNAMIC RANGE : 64 DB                     THRESHOLD :  80 DB
 SAMPLING RATE :  4/SEC              TOTAL SAMPLES =   59136
 TEST DURATION =   4: 6:24            STANDBY TIME =   4:59:44
```

TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 246
PERIOD =  1 MINUTES
```

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	85.6	85.6	6.824	6.82
2	86.3	86.0	7.521	14.35
3	82.8	85.1	4.637	18.98
4	86.1	85.4	7.306	26.29
5	65.8	85.2	.044	26.33

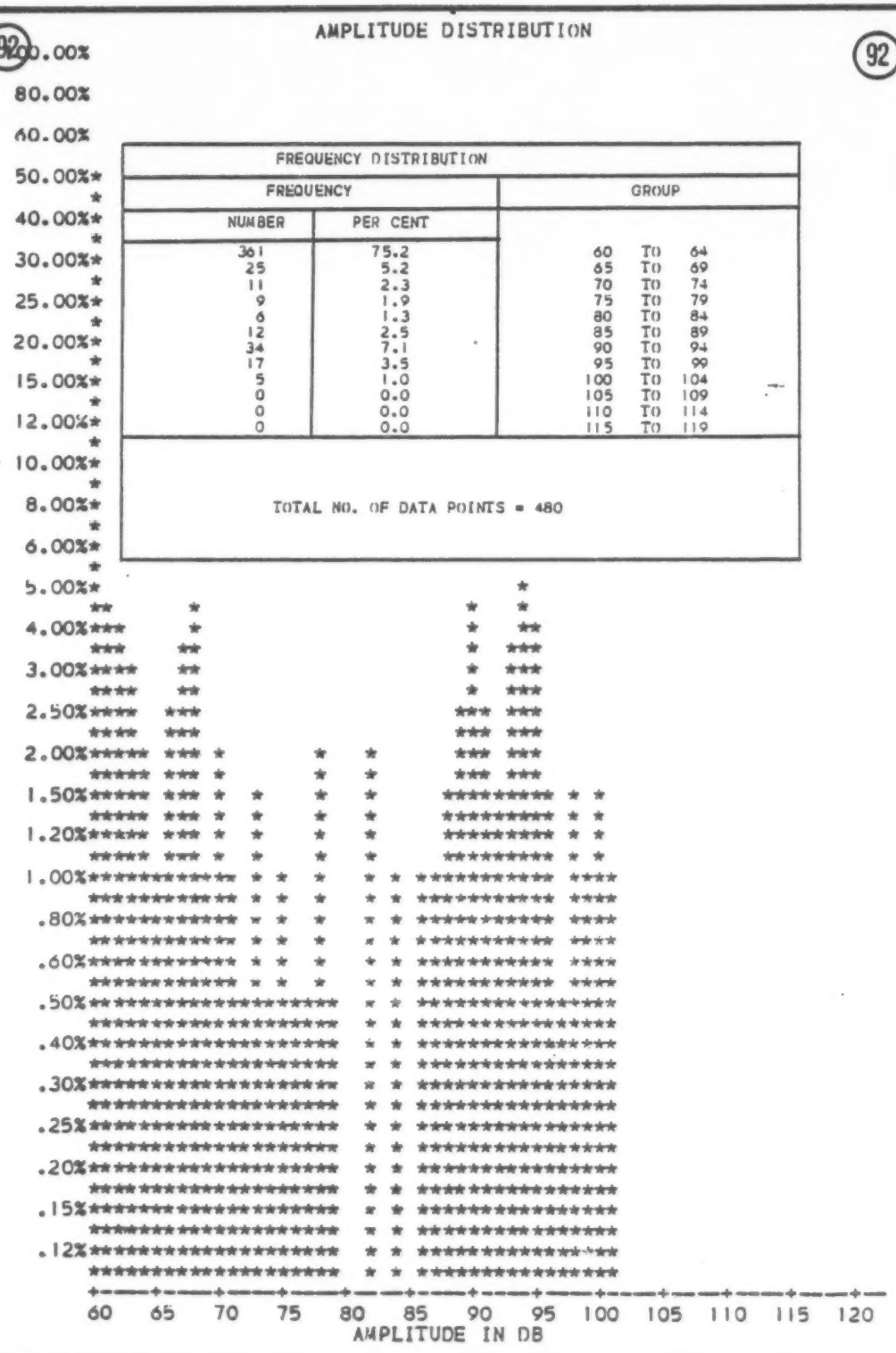
```
MIN. COMP. =  60 DB          MAX. COMP. = 101 DB
ARITHMETIC MEAN =  71 DB
STD. DEVIATION =  14 DB
VARIANCE =196 DB
```

AMPLITUDE DISTRIBUTION

92 92

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
361	75.2	60 TO 64
25	5.2	65 TO 69
11	2.3	70 TO 74
9	1.9	75 TO 79
6	1.3	80 TO 84
12	2.5	85 TO 89
34	7.1	90 TO 94
17	3.5	95 TO 99
5	1.0	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

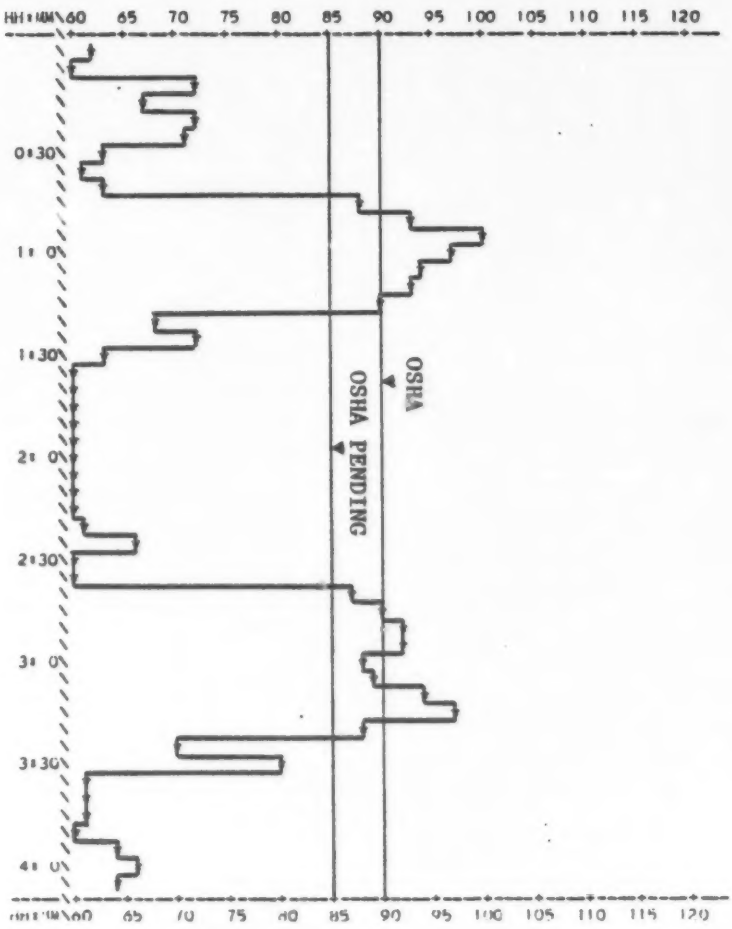
TOTAL NO. OF DATA POINTS = 480



(92) (92)

COMPRESSED TIME HISTORY
FIVE 1 MINUTE PERIODS

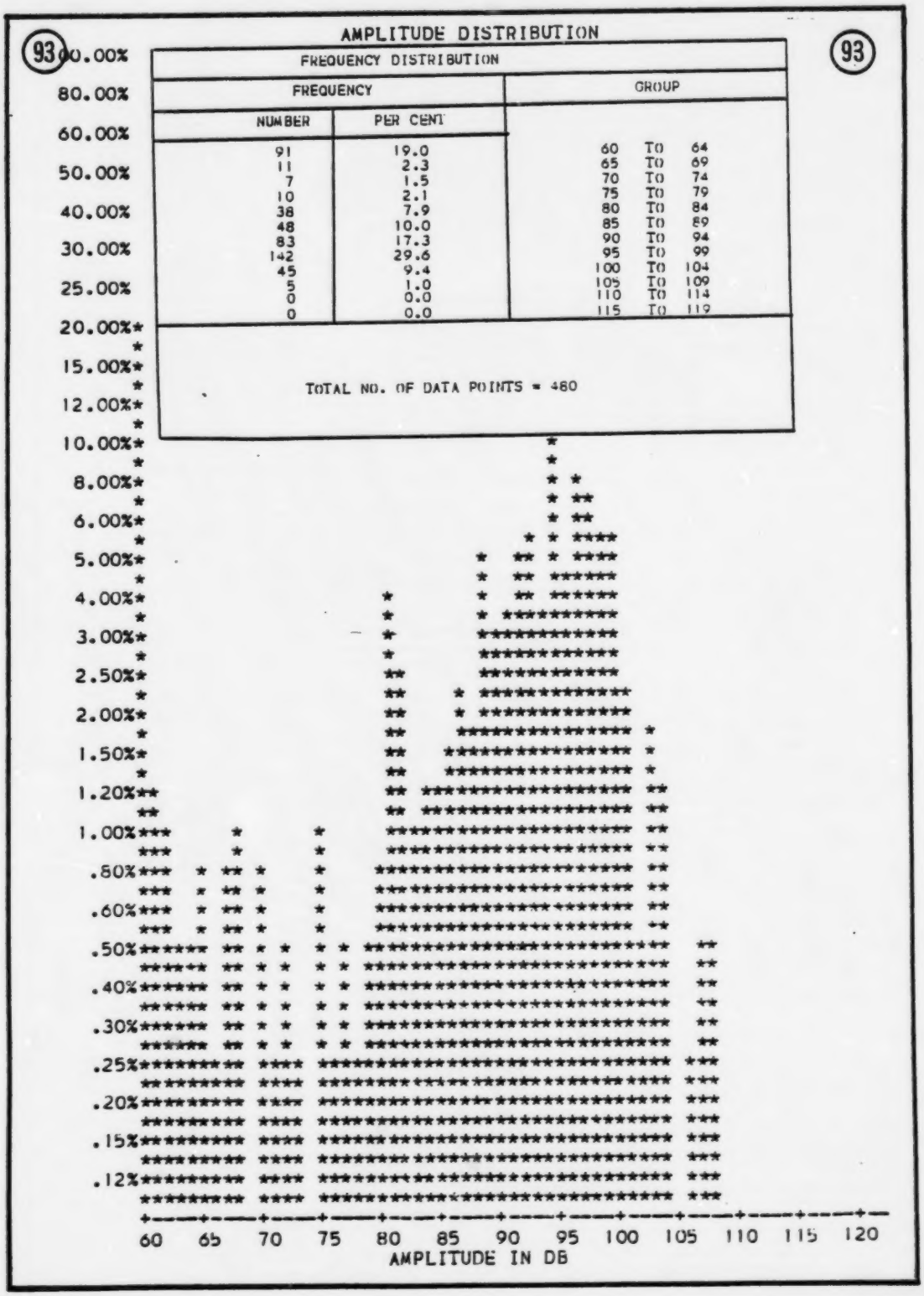
AVERAGE VALUE (LOSHA)

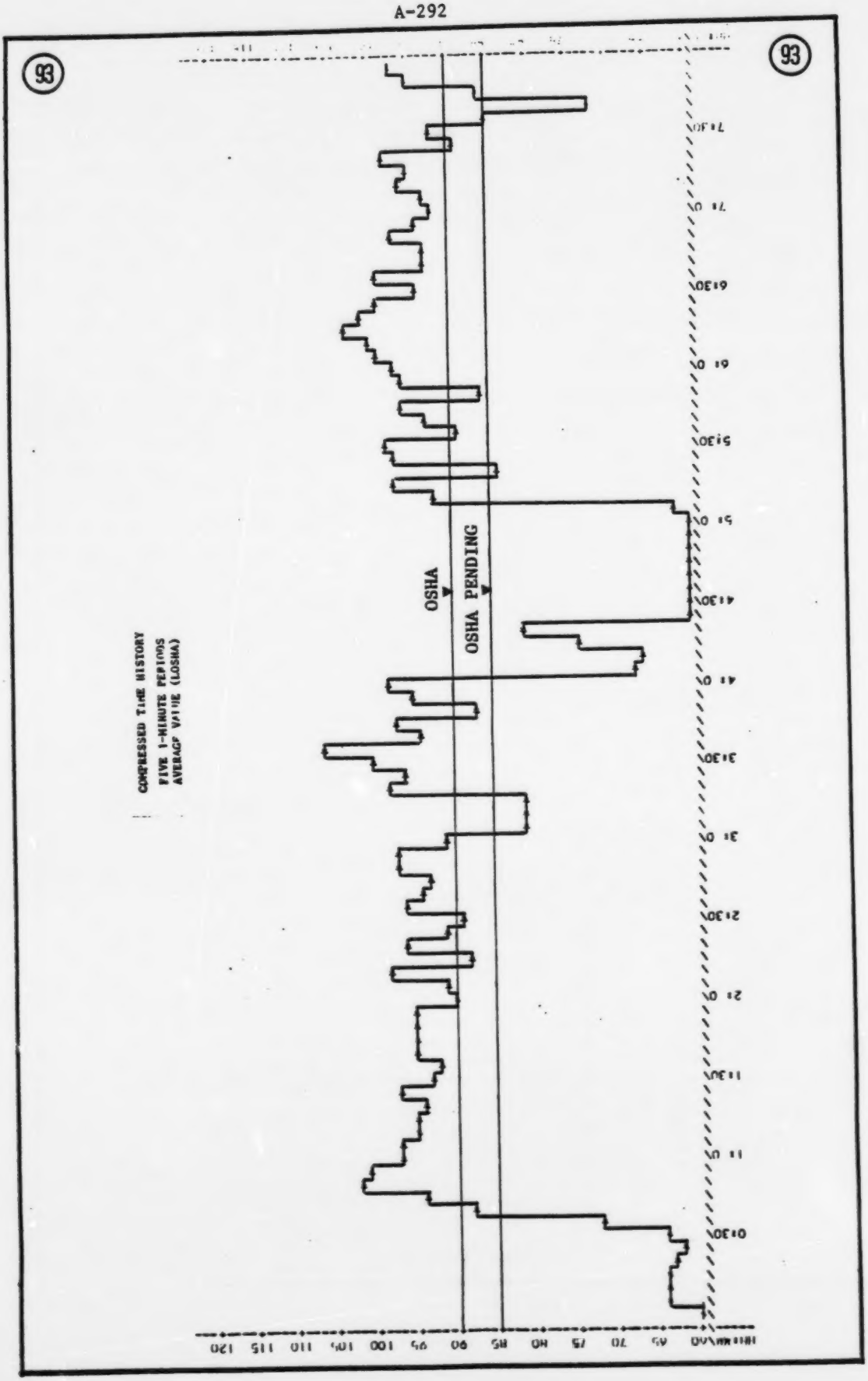


(93)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1221    60    64     4     1
     21      115200  480
  60  60  60  60  61  60  60  62  71  61  61  60  60  60  70  60
  63  67  60  65  62  62  67  60  61  60  60  64  63  60  65  60
  60  60  70  67  68  75  75  72  70  88  89  91  91  91  94  92
  93  97 101 101 102 103 103 104 103  99  95 101  98  94  96 101
  93  97  92  97  98  99  95  97  93  96  90  88  91  99  95  97
  98  89  90  92  95  93  98  93 100  97  90  97  94  92  92  92
  92  92  93  92  96  96  95  95  95  95  95  95  95  95  94  95
  95  95  96  95  95  95  94  95  98  86  81  87  85  82  82  87
  99  92  97  98  98 100  96  87  84  89  89  89  91  94  97  97
  98  94  97  88  84  80  79  85  91  90  92  98  94  91  96  97
  94  95  95  90  95  93  92  99  93  81  93  97  98  92 100  98
  99  95  95  95  90  90  89  89  95  81  82  81  81  81  81  81
  81  81  81  81  81  81  82  81  88  99 100  99  97  92  92  97
  93 101  99  95  99  97 106 108 108 107 107  91  90  93  97  94
  95 100 100  91  97  96  91  84  84  85  86  88  99  97  93  91
  97 101  98  99  93  76  60  60  60  60  60  75  60  60  60  60
  60  60  60  85  89  84  68  75  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  68  92  68  77  96  97  94  97  98  98  97
  83  82  87  82  83  89  98  98  99  96  99 103 101  89  89  90
  89  89  90  89  89  88  89  95  98  96  97 100  96  79  60  60
  80  89  94  96  99  97  95  86  86  95  99 100  98  99  99  99
  98 100 100 100 100 103  98 100 101 104 104 104 103 104 103  98
  91  98 100 100  99  98  97  87  86  90 100 100 100 102  98  96
  93  98  91  89  87  89  91  92  95  97  83  93  99 100 101 100
  90  95  93  86  83  91  98  93  81  85  89  95  96  94  92  96
  99  95  97  99  95  93  90  93 100  96  96  98  98  87  82  82
  82  97  93  80  87  97  95  93  89  78  64  62  61  60  66  65
  82  77  73  72  87  94  95  97  95  97  92  88  93 100  99  97
%EOF


ENTER LOG DATE (DD/MM/YR) : 27/07/79
ENTER SITE CODE (5 CHARS) : 20065

ENTER USER CODE (4 CHARS) : 4483
 ENTER JOB CODE (3 CHARS) : 272


   DATA LOGGED :27 JULY 1979          DATA ANALYZED : 20 SEPT 1979
       LOGGER : DB-301/26                 SITE CODE : 20065
SERIAL NUMBER : 1221                       JOB CODE : 272
     BASELINE : 60 DB                     USER CODE : 4483
DYNAMIC RANGE : 64 DB                     THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC               TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0             STANDBY TIME =   0: 0: 5

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                    %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      90.3      90.3         13.094     13.09
   2      95.1      93.1         25.392     38.49
   3      94.0      93.4         21.631     60.12
   4      96.1      94.2         28.918     89.03
   5      81.4      92.9          3.804     92.84
   6      92.8      92.8         18.310    111.15
   7      98.2      93.9         39.106    150.26
   8      92.9      93.8         18.713    168.97
MIN. COMP. =  60 DB              MAX. COMP. = 104 DB
ARITHMETIC MEAN =  86 DB
STD. DEVIATION =  14 DB
VARIANCE =196 DB
```

(93)


AMPLITUDE DISTRIBUTION
93
93
FREQUENCY DISTRIBUTION
FREQUENCY
NUMBER
PER CENT
GROUP
91 19.0 60 TO 64
11 2.3 65 TO 69
7 1.5 70 TO 74
10 2.1 75 TO 79
38 7.9 80 TO 84
48 10.0 85 TO 89
83 17.3 90 TO 94
142 29.6 95 TO 99
45 9.4 100 TO 104
5 1.0 105 TO 109
0 0.0 110 TO 114
0 0.0 115 TO 119
TOTAL NO. OF DATA POINTS = 480
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


93
93
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
7:30
7: 0
6:30
6: 0
5:30
5: 0
4:30
4: 0
3:30
3: 0
2:30
2: 0
1:30
1: 0
0:30
120
115
110
105
100
95
90
85
80
75
70
65

(94)

```
PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"
  1  26  80  1220    60    64     4     1
        98      115200   480
  60  60  62  62  72  63  67  62  60  63  66  60  60  61  64  60
  60  62  60  60  63  70  76  73  63  78  71  70  73  73  72  73
  77  75  75  74  72  77  76  78  67  80  78  72  71  82  80  78
  73  75  73  71  76  76  72  79  81  60  60  62  61  60  62  64
  60  66  66  60  60  63  71  68  67  74  75  66  62  64  64  72
  71  67  [illegible]
  61  61  65  60  62  62  62  62  69  71  75  70  [illegible]
  88  78  89  93  96  89  92  91  101  94  87  89  [illegible]
 102  99  96 100  99 102  94  95  93  99  92  91  89  82  63  61
  63  62  65  67  70  61  60  65  68  60  68  60  60  60  61  62
  62  64  62  60  60  61  60  60  60  61  83  81  65  62  60  60
  84  90  95  97  96  94  95  93  92  90  93  92  94  96  96  94
  88  89  84  88  94  93  93  97 101  98  87  85  [illegible]
  80  79  75  78  79  65  66  87  90  78  60  60  63  65  70  61
  65  80  84  82  80  83  84  87  90  77  81  83  79  79  78  79
  78  79  74  90  90  81  86  75  82  67  77  85  72  86  81  85
  87  90  94  91  88  88  88  88  92  85  83  86  82  85  82  82
  80  82  86  82  83  84  83  83  76  99 105 102 102 102  96  87
  87  87  88  88  88  88  89  90 101 102 102  93  85  84  96  97
 101 102 102 102 101 102 103 103 104 102 100 100 101 102 100 101
 101  99  95  91  96  90  90  90 102 101  98 100 100 100 100 100
 102 102 102 101 101 100 102 101 100  87  81  60  60  60  60  74
  95  76  60  60  60  60  69  90  98  96  87  87  87  87  88  93
  88 102 103  99 101 101 102 102 103 103 103 102 102 101 102 100
 100 103 104 104  90  88  98 103 102 102 103 102  92  90  97 101
 106 103 102 100 104  97  94  86  76  67  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  66  75  60  60  60  60  66  67  61  64  69  60  60  61  60
  60  60  60  60  60  60  60  60  78  83  93 101 104 104 104 104
 105 105 104 105 106 106 104 105 104 103  91  62  73  68  61  67
%EOF
```

(94)

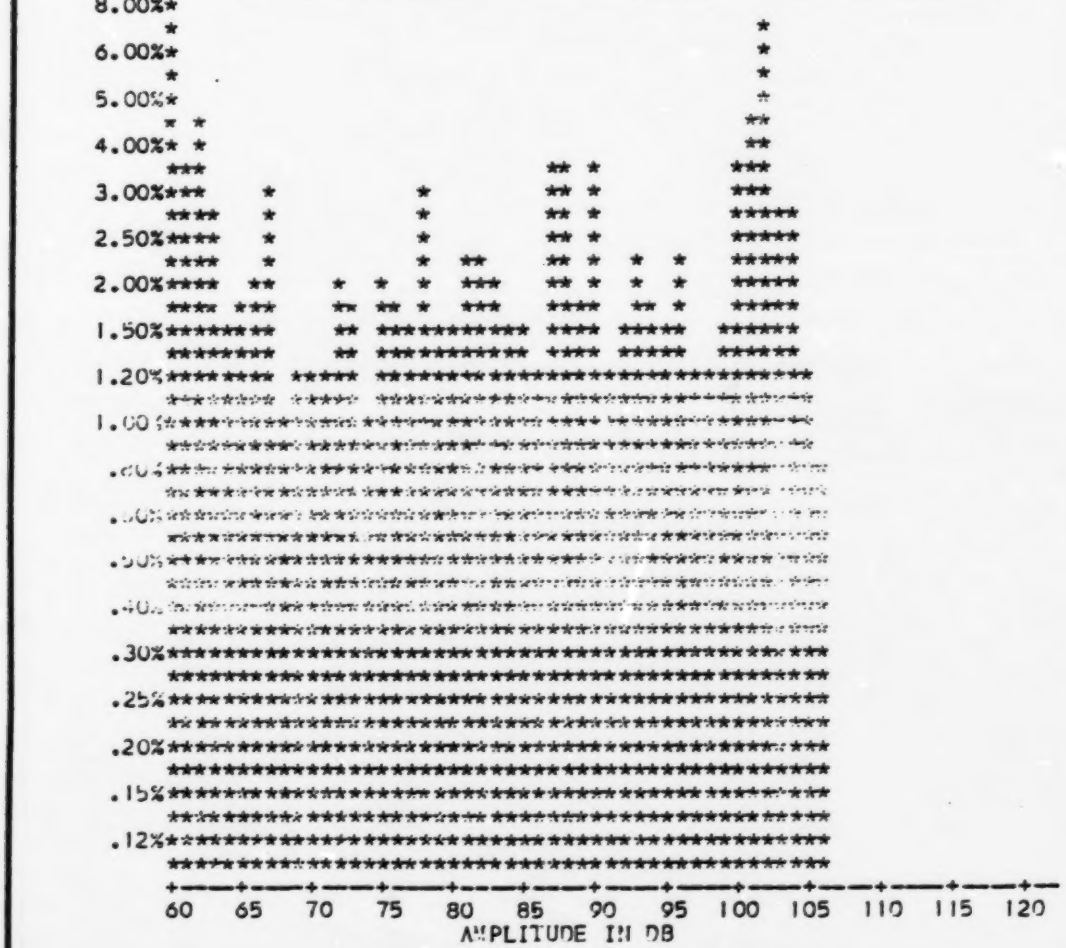
```
ENTER LOG DATE (DD/MM/YR) : 13/09/79
ENTER SITE CODE (5 CHARS) : 00307
ENTER USER CODE (4 CHARS) : 4753

 ENTER JOB CODE (3 CHARS) : 213


   DATA LOGGED :13 SEPT 1979          DATA ANALYZED : 27 SEPT 1979
        LOGGER : 05-301/26                 SITE CODE : 00307
 SERIAL NUMBER : 1220                       JOB CODE : 213
      BASELINE : 60 DB                     USER CODE : 4753
 DYNAMIC RANGE : 98 DB                     THRESHOLD : 80 DB
 SAMPLING RATE : 4/SEC                  TOTAL SAMPLES = 115200
 TEST DURATION = 8 HRS 0 MIN            STARTING AT   = [illegible]

            TIME HISTORY ANALYSIS

 100% EXPOSURE LEVEL (T.E.L.) CALCULATIONS
 ARE BASED ON THE FOLLOWING:
 TIME CONST. = 30 DB / 8 HRS
 [illegible]
 THRESHOLD (BASELINE) LEVEL = 80 DB
   NUMBER OF COMPUTATIONS = 480
 PERIOD =  1 MINUTES

 % OF          LOG A                          ANTILOG
 HOUR     CURRENT  CUMULATIVE          CURRENT  CUMULATIVE
    1        72.6       72.6            1.125        1.12
    2        78.0       75.8            2.344        3.49
    3        [illegible]
    4        [illegible]
    5        91.5       87.0           15.454       41.08
    6        98.1       90.4           38.273       79.36
    7        [illegible]
    8        94.6       92.6           23.757      142.96
 MIN. COMP. =  60 DB                 MAX. COMP. = 100 DB
 ARITHMETIC MEAN =  80 DB
 STD. DEVIATION =  16 DB
 VARIANCE = 256 DB
```

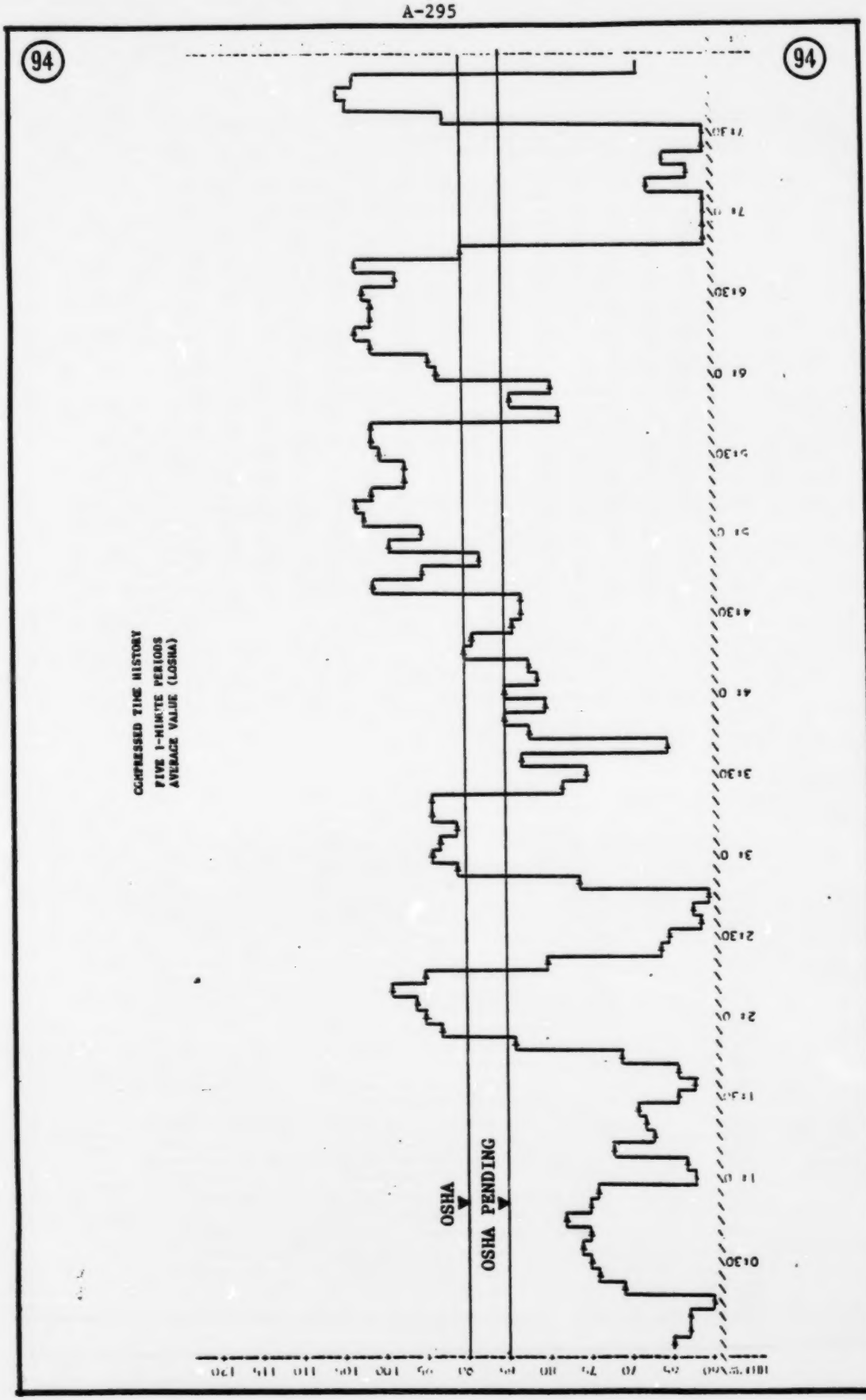
AMPLITUDE DISTRIBUTION

(94) (94)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
130	27.1	60 To 64
36	7.5	65 To 69
29	6.0	70 To 74
39	8.1	75 To 79
38	7.9	80 To 84
47	9.8	85 To 89
41	8.5	90 To 94
31	6.5	95 To 99
81	16.9	100 To 104
8	1.7	105 To 109
0	0.0	110 To 114
0	0.0	115 To 119

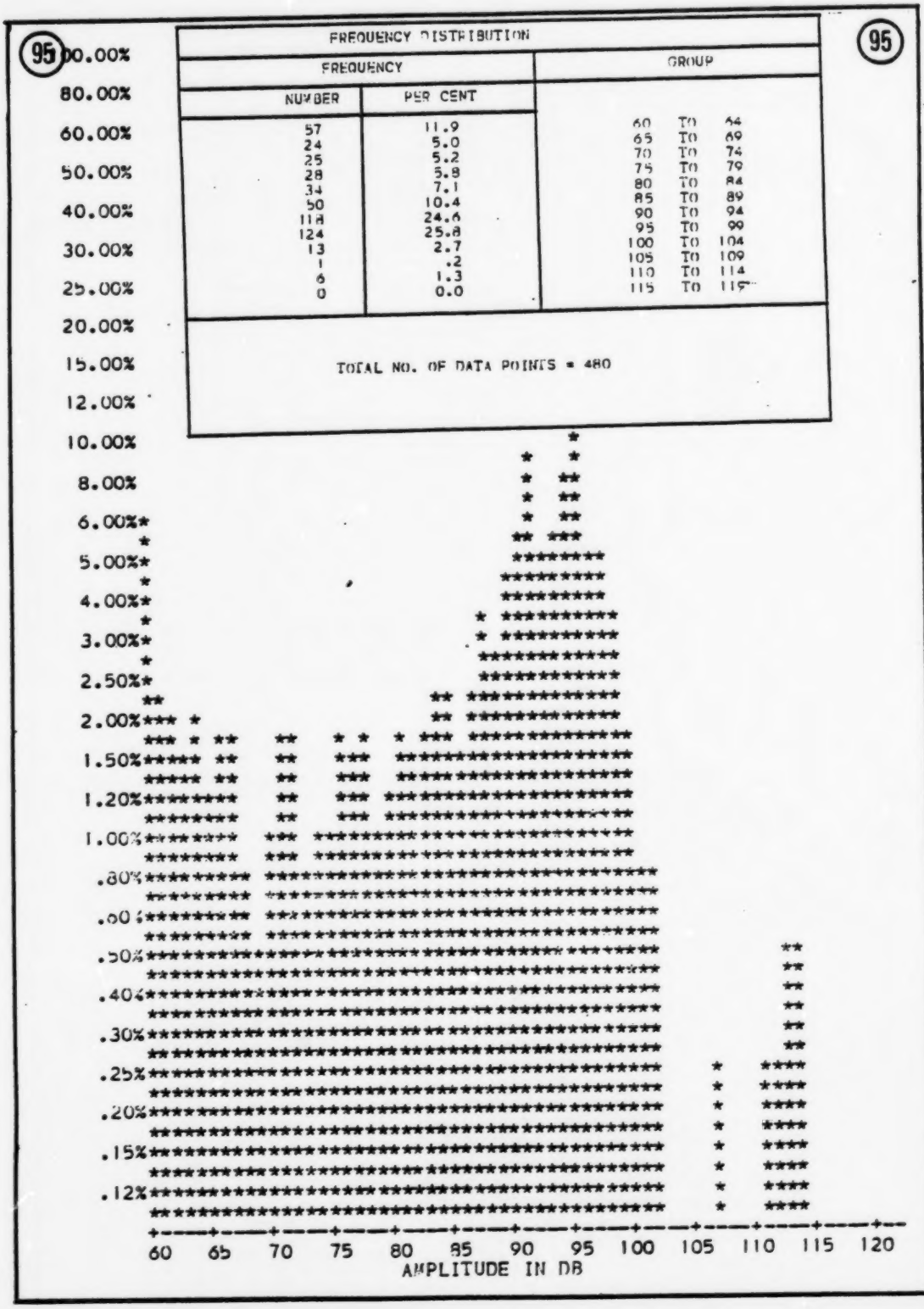
TOTAL NO. OF DATA POINTS = 480

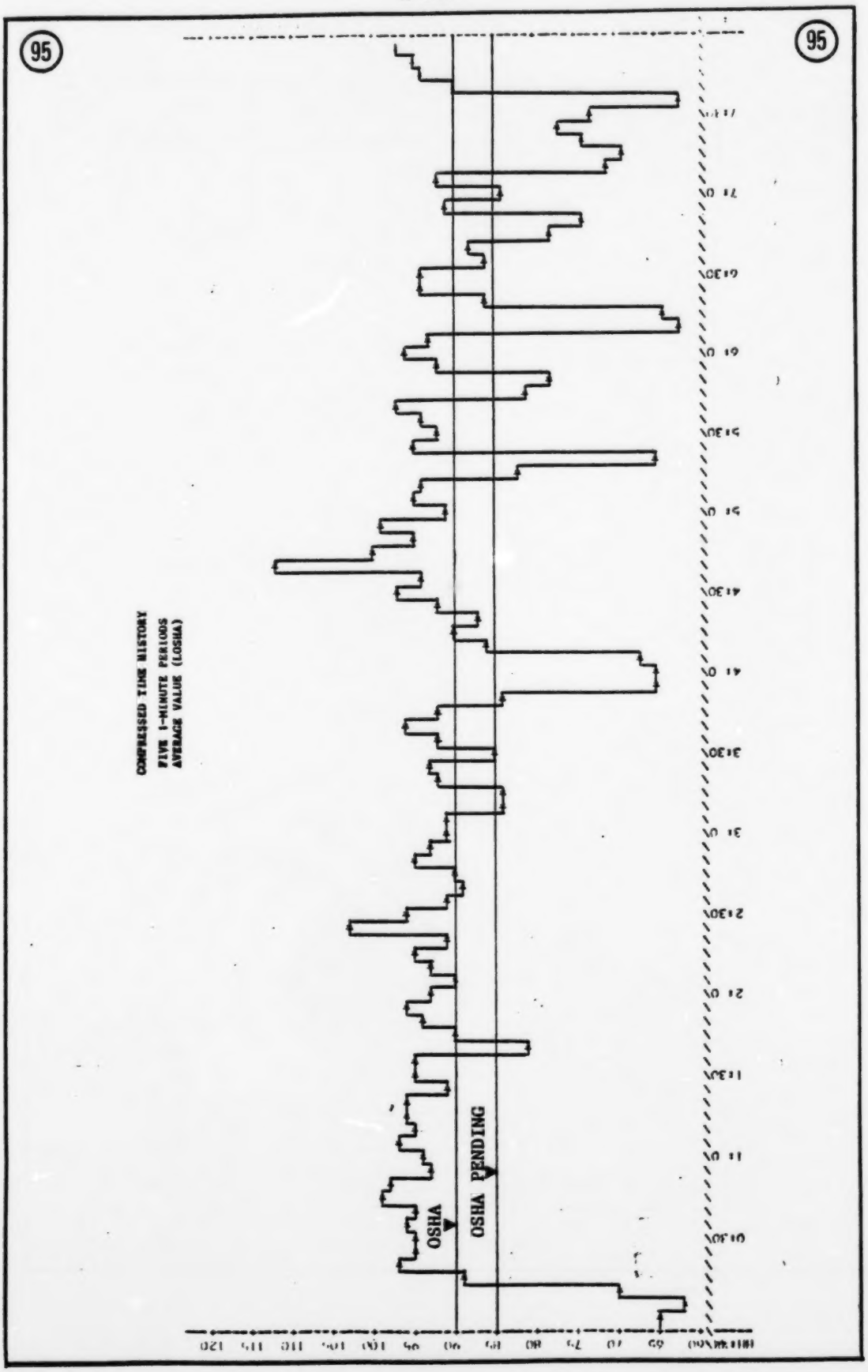



94
94
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

95 95

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1216   60   64    4    1
  12395    115200  480
  61  60  62  62  71  60  61  60  63  65  61  65  62  61  79  83
  85  91  90  92  91  96  98 101  96  92  95  92  99  93  99  99
  90  89  87  93  94  96  97  97  96  81  93  98  96 101  99  94
 100 100  97  99  98  99  95  87  91  96  91  96  95  89  94  95
  97  91  97  99  97  99  79  82  96  99  98  96  97  95  92  98
  89  98  97  95  98  90  91  91  91  93  95  92  97  95  96  98
  98  92  93  84  85  82  82  70  76  82  92  86  90  95  88  91
  97  96  93  93  93 100  95  97  92  96  92  94  91  92  86  82
  92  93  90  91  95  95  94  96  93  93  97  95  96  93  83  81
  92  96  92 101 112  88  94  98  95  96  96  95  93  88  88  84
  90  80  85  91  94  94  89  92  89  81  91  96  96  94  95 100
  96  87  81  76  81  92  96  91  83  66  86  91  96  92  91  89
  60  60  67  63  69  92  89  60  84  94  93  95  88  96  92  92
  91  92  80  84  93  79  66  80  96  96  88  89  97  98  95  96
  90  93  91  92  92  91  92  86  79  77  65  68  62  67  62  61
  64  66  60  67  67  60  64  62  71  72  73  82  85  88  90  94
  88  81  87  93  91  88  85  85  85  91  88  80 100  78  87  88
 107  87  84  98  86  96  90  92  96 114 113 113 114 111  87  84
  84  90  98  96  92  94  95  94  95 102 102  98  83  89  89  90
  97  95  83  92 100  96  94  89  97  95  91  92  78  67  63  61
  60  67  67  65  61  88  88  98  99  92  93  95  96  88  62  85
  92  92  97  99  97  93  96  99  99  90  78  75  70  68  71  87
  71  63  74  90  72  76  96  97  84  94 100  96  96  98  98  90
  62  60  63  66  60  60  60  61  60  64  68  66  61  60  90  90
  90  77  75  94  98  99  98  94  98  92  64  76  90  94  66  70
  69  64  87  94  92  85  70  74  72  76  74  78  72  72  71  78
  76  83  98  95  92  86  60  60  83  81  71  97  94  95  64  63
  60  73  78  77  60  60  71  60  74  72  72  76  75  73  77  77
  78  77  80  65  75  64  64  60  60  60  66  60  60  84  94  93
  92  95  95  88  96  95  95  97  94  95  96  96 102  92  96  94
%EOF


ENTER LOG DATE (DD/MM/YR) : 20/08/79

ENTER SITE CODE (5 CHARS) : 00307
ENTER USER CODE (4 CHARS) : 4362
 ENTER JOB CODE (3 CHARS) : TEL


   DATA LOGGED :20  AUG 1979          DATA ANALYZED : 25 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : 00307
 SERIAL NUMBER : 1216                        JOB CODE : TEL
      BASELINE : 60 DB                      USER CODE : 4362
 DYNAMIC RANGE : 54 DB                      THRESHOLD :  80 DB
 SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
 TEST DURATION =   8: 0: 0                STANDBY TIME =   0:51:38

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                      %DOSE
HOUR     CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1       93.5      93.5         20.348     20.35
   2       94.2      93.9         22.298     42.65
   3       94.4      94.0         22.929     65.57
   4       89.7      93.2         12.050     77.63
   5       98.5      94.6         40.460    118.09
   6       91.4      94.1         15.215    133.30
   7       89.1      93.6         11.002    144.30
   8       88.6      93.1         10.261    154.56
MIN. COMP. =  60 DB              MAX. COMP. = 114 DB
ARITHMETIC MEAN =  85 DB
STD. DEVIATION =  13 DB
VARIANCE =169 DB
```


95
95
FREQUENCY DISTRIBUTION
FREQUENCY
NUMBER
PER CENT
GROUP
57 11.9 60 TO 64
24 5.0 65 TO 69
25 5.2 70 TO 74
28 5.8 75 TO 79
34 7.1 80 TO 84
50 10.4 85 TO 89
118 24.6 90 TO 94
124 25.8 95 TO 99
13 2.7 100 TO 104
1 .2 105 TO 109
6 1.3 110 TO 114
0 0.0 115 TO 119
TOTAL NO. OF DATA POINTS = 480
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


95
95
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
01:30
1: 0
1:30
2: 0
2:30
3: 0
3:30
4: 0
4:30
5: 0
5:30
6: 0
6:30
7: 0
65
70
75
80
85
90
95
100
105
110
115
120

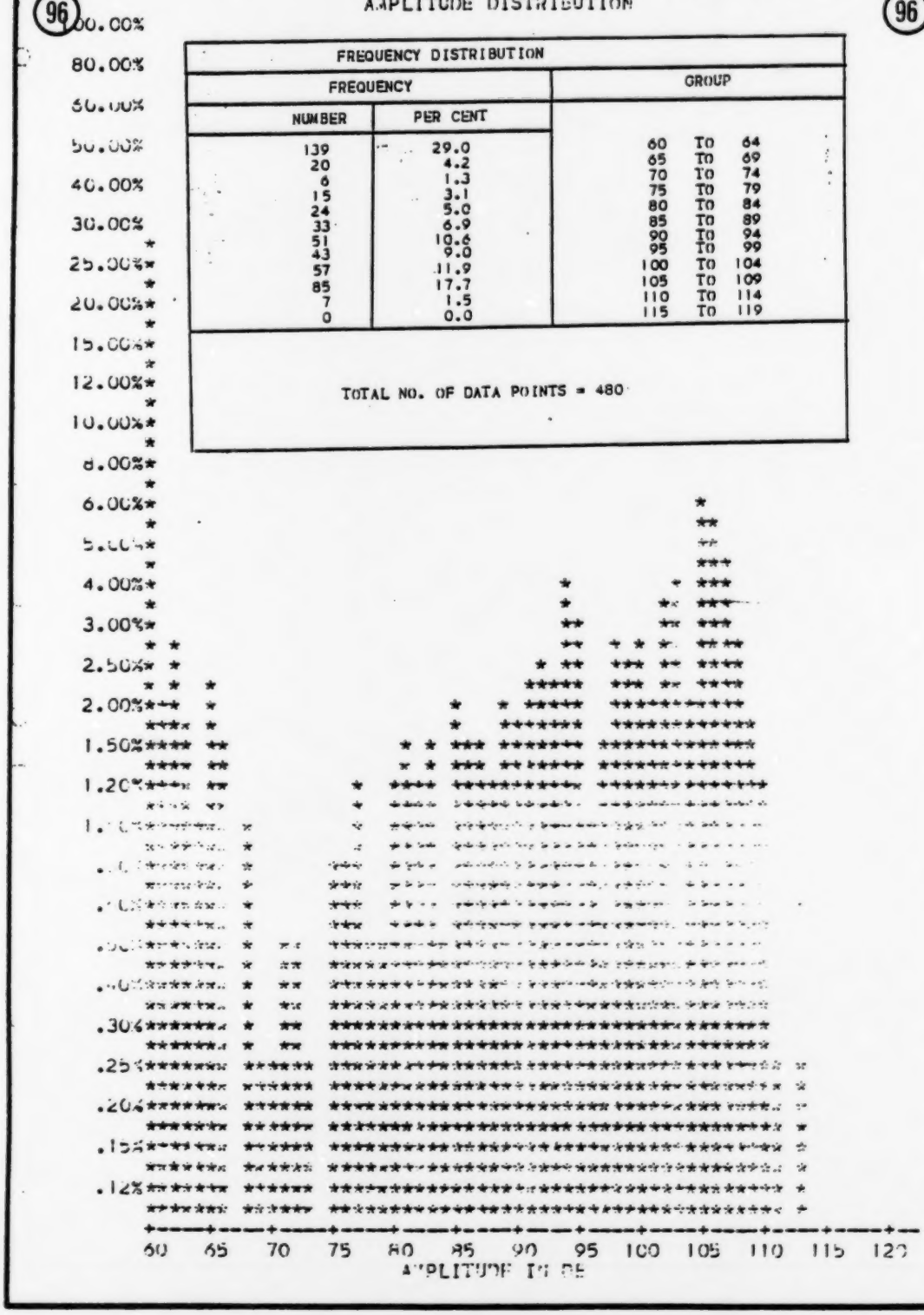
96

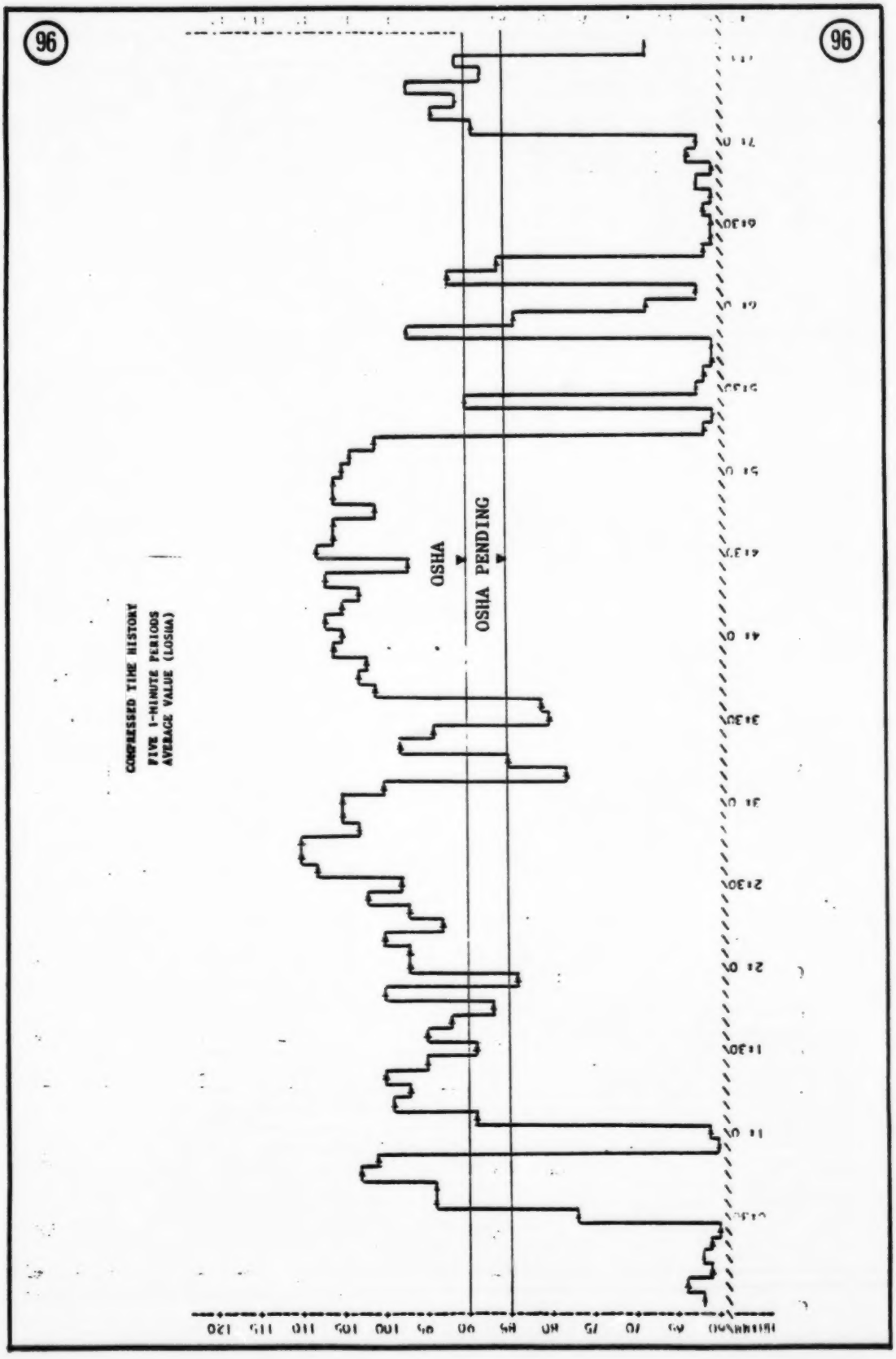
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1219   60   64    4    1
      92     115200  480
  62  60  66  61  60  60  60  61  60  70  60  60  60  62  62  60
  60  62  60  66  63  60  60  62  60  60  60  60  60  60  60  72
  81  63  83  90  94  95  95  94  94  94  93  93  94 103 104 103
 104 102 106 103 101  98  87  60  60  60  60  60  60  60  60  62
  61  60  60  90  93  94  96 102 105  98  60  91  91 100 103  92
  97 103 105  [illegible]  84  [illegible]  [illegible]  [illegible] 102 100  62  60  60  86 102
  99  80  83  80  94  98  86  82  85  81  82  [illegible]  [illegible]  92  95  99
 101 102 101  89  [illegible]  91  [illegible]  60  65  89 102 102  95  95 102 100
  89  90  98 103  98 102  93  99  95  88  87  88  90  85  92 100
 103 104  97  98 105 101  [illegible]  85 105  99  95 100 109 109 110 108
 110 109 110 109 110 111 113 110 108 107 107 105 106  90  95  95
 106 105 107 105 105 105 105 105 105 105 105 100  83  71  75  80
  77  81  76  80  86  77  75  92  [illegible]  89 101  92 102 102  97  77
  83  82  76  87  80  77  73  76  82  81  81  81  82  99 104 100
 105 103 104 104 103 103 103 103 102 102 100  99 106 106 109 108
 105 106 107 106 101 107 103 107 109 109 106 106 106 105 102 100
  93 104 106 107 108 107 107 107 107  98  90  86  78 105 107 106
 108 108 107 108 108  91 106 106 106 106 106 106 105  97  83  85
 104 109 108 107 107 103 106 107 107 106 106 106 105 105 105 105
 107 103  97 105 106 106 105 105 101  86  98  65  61  60  60  60
  60  60  60  60  60  60  77 100  [illegible]  66  60  60  60  60  [illegible]  60
  62  60  61  60  60  60  60  60  60  60  62  60  60  60  89 101
 103  94  79  91  90  60  66  65  65  60  76  65  62  64  63  64
  60  60  94  92  91  91  92  93  92  72  65  60  60  60  60  61
  63  60  60  60  60  60  60  60  60  60  60  63  60  60  60  60
  60  60  60  60  60  60  64  60  66  60  60  60  60  60  60  60
  60  64  68  60  66  60  61  60  60  60  60  94  93  92  93  94
  94  94  94  93  88  60  83  99 100  95  91  99  97  96  91  71
  68  65  79  95  95  89  87  68  60  75  63  61  65  85  98  99
  94  92  99  87  89  86  96  94  85  63  60  60  60  60  62  60
%EOF


ENTER LOG DATE (DD/MM/YR) : 16/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 4560
 ENTER JOB CODE (3 CHARS) : 273


   DATA LOGGED :16 JULY 1979          DATA ANALYZED : 13 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : CC210
SERIAL NUMBER : 1219                         JOB CODE : 273
      BASELINE : 60 DB                       USER CODE : 4560
DYNAMIC RANGE : 64 DB                       THRESHOLD : 60 [illegible]
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   [illegible]  0:  0          STANDBY TIME =   [illegible]  0:23

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                          DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      91.4      91.4        15.222      15.22
   2      94.5      93.1        23.353      38.58
   3     103.5      98.4        41.546     120.12
   4      99.4      98.7        45.818     165.94
   5     105.3     100.6       104.706     270.64
   6      95.2      99.9        25.638     296.28
   7      77.6      98.9         2.232     298.51
   8      90.3      98.2        13.028     311.54
MIN. COMP. =  60 DB                MAX. COMP. = 113 DB
ARITHMETIC MEAN =  84 DB
STD. DEVIATION =  18 DB
VARIANCE =324 DB
```

96 AMPLITUDE DISTRIBUTION 96

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
139	29.0	60 TO 64
20	4.2	65 TO 69
6	1.3	70 TO 74
15	3.1	75 TO 79
24	5.0	80 TO 84
33	6.9	85 TO 89
51	10.6	90 TO 94
43	9.0	95 TO 99
57	11.9	100 TO 104
85	17.7	105 TO 109
7	1.5	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




96
96
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
120
115
110
105
100
95
90
85
80
75
70
65
DECIBELS

(97)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
1 26 80 1225 60 64 4 1
96 115200 480

70	60	64	67	65	61	67	65	66	78	80	71	88	91	91	96
95	93	98	103	106	104	104	102	102	103	100	102	94	103	101	94
94	94	94	94	94	94	94	94	94	94	94	94	98	100	107	94
92	93	98	106	97	97	96	99	95	92	103	103	96	86	86	86
86	86	87	99	97	93	101	100	93	93	93	93	93	93	93	93
93	93	93	97	106	98	94	94	94	95	94	94	95	94	94	94
95	100	104	101	96	102	103	104	102	93	90	66	0	78	88	85
84	90	92	95	101	100	103	92	94	104	102	101	101	103	104	94
86	85	91	93	86	87	87	86	86	87	87	87	87	87	86	87
87	87	87	87	87	87	87	87	87	87	92	95	103	106	103	101
101	103	105	104	106	100	94	87	87	103	105	100	101	73	62	65
70	74	64	63	67	67	62	62	61	60	99	104	102	92	90	85
75	75	87	99	93	95	96	97	93	96	91	91	91	92	91	90
98	95	103	106	92	105	115	116	115	114	116	115	115	113	114	112
113	113	113	107	113	107	106	107	108	108	95	90	92	92	90	92
93	94	91	101	106	107	108	109	111	114	113	111	110	110	110	113
91	107	109	108	111	113	112	112	109	110	114	114	105	105	111	113
114	112	114	108	108	110	110	110	110	110	102	93	91	91	87	84
85	89	84	85	94	87	84	91	95	97	91	93	93	97	73	63
66	70	71	60	60	60	60	60	60	60	61	60	67	70	61	76
60	60	60	66	60	60	60	60	72	90	101	100	101	106	104	98
105	103	101	112	106	99	92	95	103	104	106	99	86	74	77	83
63	64	67	70	98	102	95	89	90	99	104	104	100	94	93	106
103	105	89	88	89	102	104	101	104	104	103	97	90	90	98	104
102	98	96	99	99	94	94	94	100	103	103	101	105	104	107	98
98	94	95	96	95	98	102	102	101	104	101	85	86	86	85	86
87	87	94	87	87	104	104	103	102	102	103	104	104	104	104	100
100	101	102	98	99	102	102	102	102	102	102	102	101	102	100	99
99	100	109	102	105	106	108	97	109	105	107	92	93	92	91	94
96	104	104	93	101	103	100	101	100	89	94	95	103	104	103	97

&EOF

ENTER LOG DATE (DD/MM/YR) : 17/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : /762
ENTER JOB CODE (3 CHARS) : 271

DATA LOGGED :17 JULY 1979
LOGGER : DR-301/26
SERIAL NUMBER : 1225
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION : 8[illegible] 0

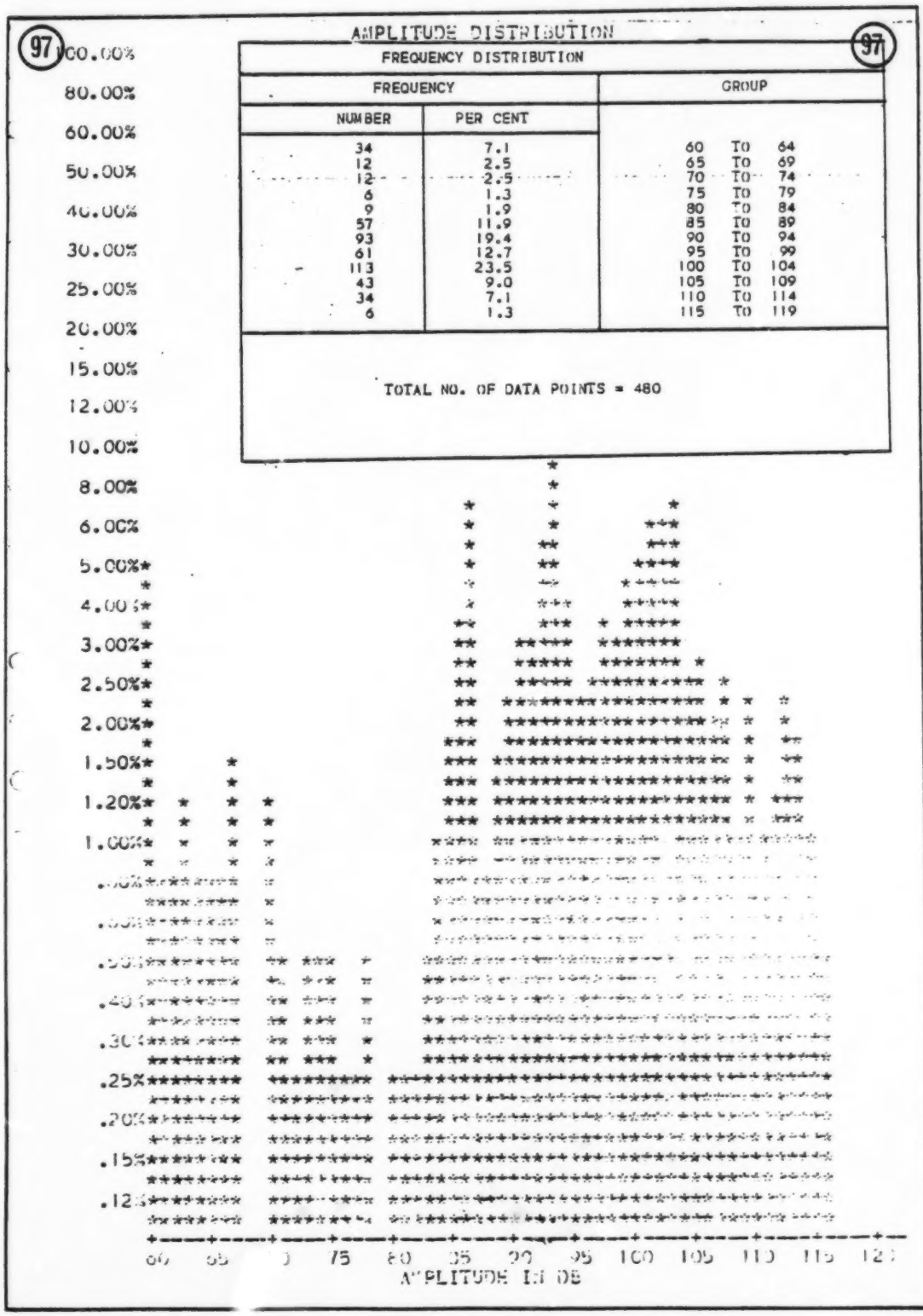
DATA ANALYZED : 13 SEPT 1979
SITE CODE : CC210
JOB CODE : 271
USER CODE : 7762
THRESHOLD : 90 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0[illegible]

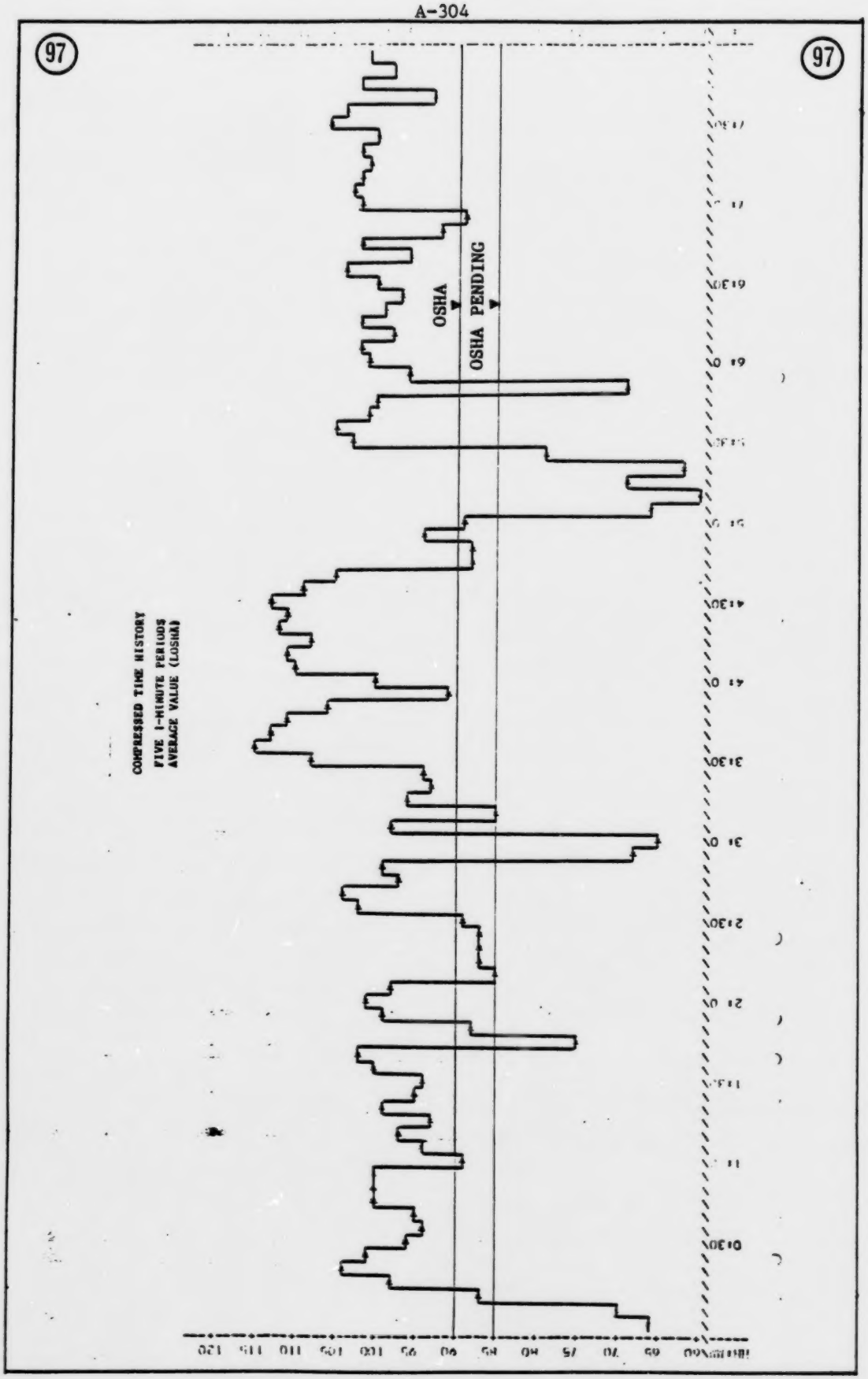
TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = [illegible] DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LOCAL		NOISE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	97.2	97.2	34.107	34.11
2	96.0	96.6	28.652	62.76
3	95.3	96.6	30.790	93.51
4	103.9	103.2	113.395	206.90
5	107.6	102.4	143.470	350.78
6	95.9	101.7	26.137	376.92
7	99.4	101.4	46.293	423.21
8	101.8	101.5	64.067	489.28

MIN. COMP. = 60 DB
MAX. COMP. = 116 DB
ARITHMETIC MEAN = 93 DB
STD. DEVIATION = 14 DB
VARIANCE =196 DB


97
AMPLITUDE DISTRIBUTION
97
FREQUENCY DISTRIBUTION
FREQUENCY
GROUP
NUMBER
PER CENT
34 7.1 60 TO 64
12 2.5 65 TO 69
12 2.5 70 TO 74
6 1.3 75 TO 79
9 1.9 80 TO 84
57 11.9 85 TO 89
93 19.4 90 TO 94
61 12.7 95 TO 99
113 23.5 100 TO 104
43 9.0 105 TO 109
34 7.1 110 TO 114
6 1.3 115 TO 119
TOTAL NO. OF DATA POINTS = 480
AMPLITUDE IN DB


97
97
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
dB(A)
60
65
70
75
80
85
90
95
100
105
110
115
120
01:30
11
11:30
21
21:30
31
31:30
41
41:30
51
51:30
61
61:30
71
71:30

98

PLACE TAPE IN DRIVE THEN TYPE A SPACE AND A RETURN

98

```
  1  26  70  1221    60    64     4     1
  10572      119290   440
  70  62  60  60  60  60  60  60  62  60  60  60  60  60  60  60
  60  60  60  60  60  61  60  63  60  76  70  73  73  66  62  61
  63  73  62  60  64  69  74  75  64  66  61  60  60  69  66  73
  69  67  79  79  73  73  61  87  85  93  76  63  79  66  71  69
  79  76  74  76  72  68  69  75  73  73  72  72  70  73  72  75
  75  73  75  74  92 100  99  85  84  92  95  95  84  [illegible]
  [illegible]
  [illegible]
  [illegible]
  [illegible]
 104  99 111 115 113 111  93  95 105 114 114 113 111  [illegible]
  [illegible]
  [illegible]
  [illegible]
  [illegible]
 112 112 114  96  97 104 112 111 113 113  93  [illegible]
 111  93 106 112 115  91 114 115 113 110  95  96 111 101 109 117
  [illegible]
  71  66  68  72  65  67  63  62  67  63  67  70  69  [illegible]
  [illegible]
 112 112 111 116 106 102 100  96 100 100 101 100 101 105  [illegible]
  [illegible]
  [illegible]
  66  89 100  92 100  99  96  87  86  87  87  86  86  86  92  95
  93  90  99  87  89  87  88  87  88  88  89  89  92  95  91  94
  93  92  93  93  93  97  97  97  93  92  93  95  93  94  93 110
 119 120 108 119 105  94  95  95  95  95  95  95  95  93  94  95
  97  96  96  96  96  96  97  96  97  97  96  96  96  96  96  95
  95  96  96  95  94  97  99  96  93  95  94  96 100  96  89  87
  90  93  92  95  92  86  86  86  86  86  87  86  85  85  86  87
  87  87  87  89  94  97  99 102  99  95  89  96  97  99  97  97
%EOF
```

ENTER LOG DATE (DD/M/YR) : 24/07/79
ENTER SITE CODE (5 CHARS) : 45080

ENTER USER CODE (4 CHARS) : [illegible]

ENTER JOB CODE (3 CHARS) : 261

DATA LOGGED :24 JULY 1979
[illegible]

DATA ANALYZED : 17 SEPT 1979
[illegible]
: 281
: 1880
: 8
[illegible]

[illegible] HISTOGRAM ANALYSIS

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

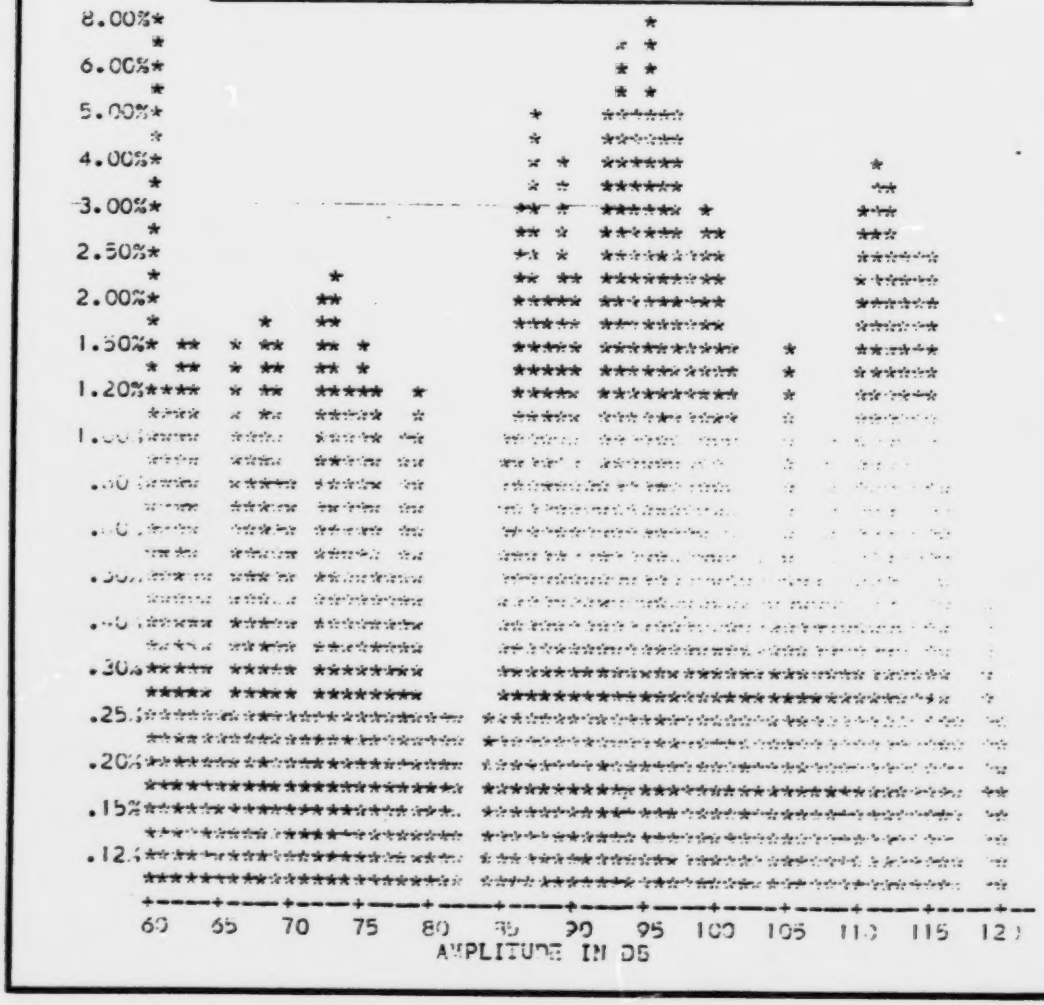
[illegible]
[illegible]
```
  1      72.8      72.8      1.151      1.15
  2      [illegible]
  3      [illegible]
  4      [illegible]
  5      [illegible]
  6      [illegible]
  7      [illegible]
  8      [illegible]
```
[illegible]
[illegible]
[illegible]
[illegible]

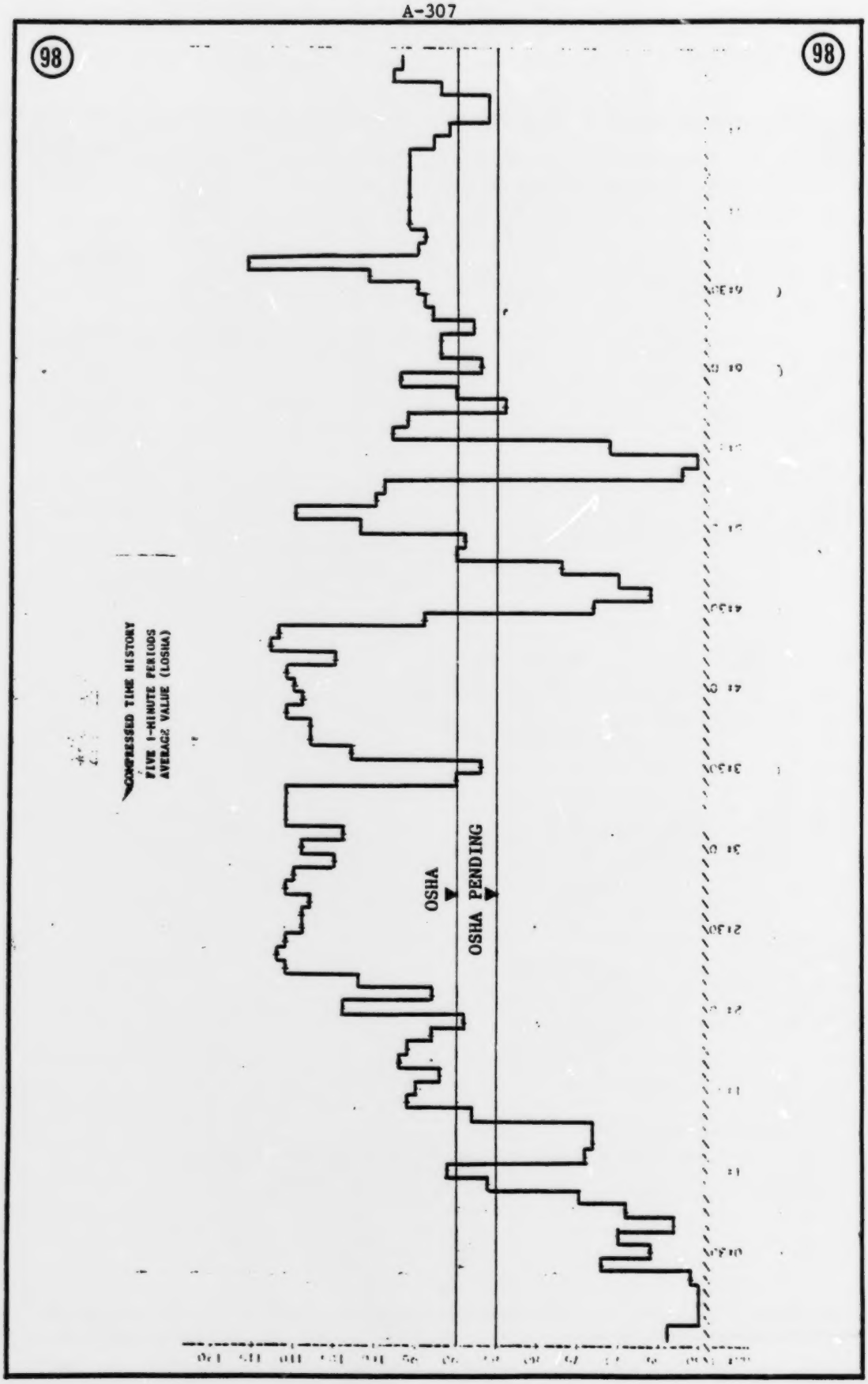
98

AMPLITUDE DISTRIBUTION

98

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
52	10.9	60 TO 64
24	5.0	65 TO 69
26	5.4	70 TO 74
22	4.6	75 TO 79
4	.8	80 TO 84
61	12.7	85 TO 89
79	16.5	90 TO 94
92	19.2	95 TO 99
25	5.2	100 TO 104
16	3.3	105 TO 109
62	12.9	110 TO 114
16	3.3	115 TO 119
TOTAL NO. OF DATA POINTS = 480		

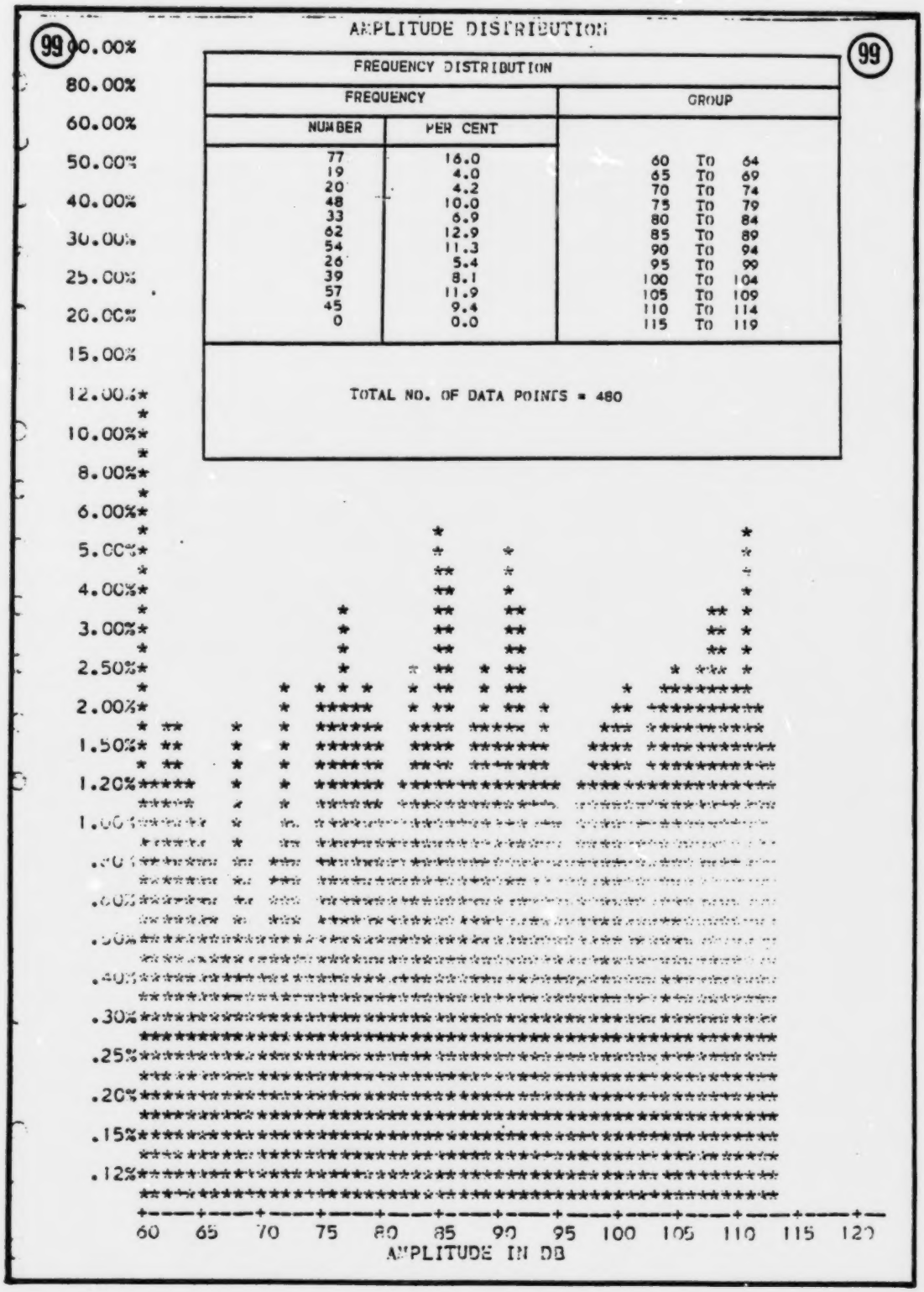


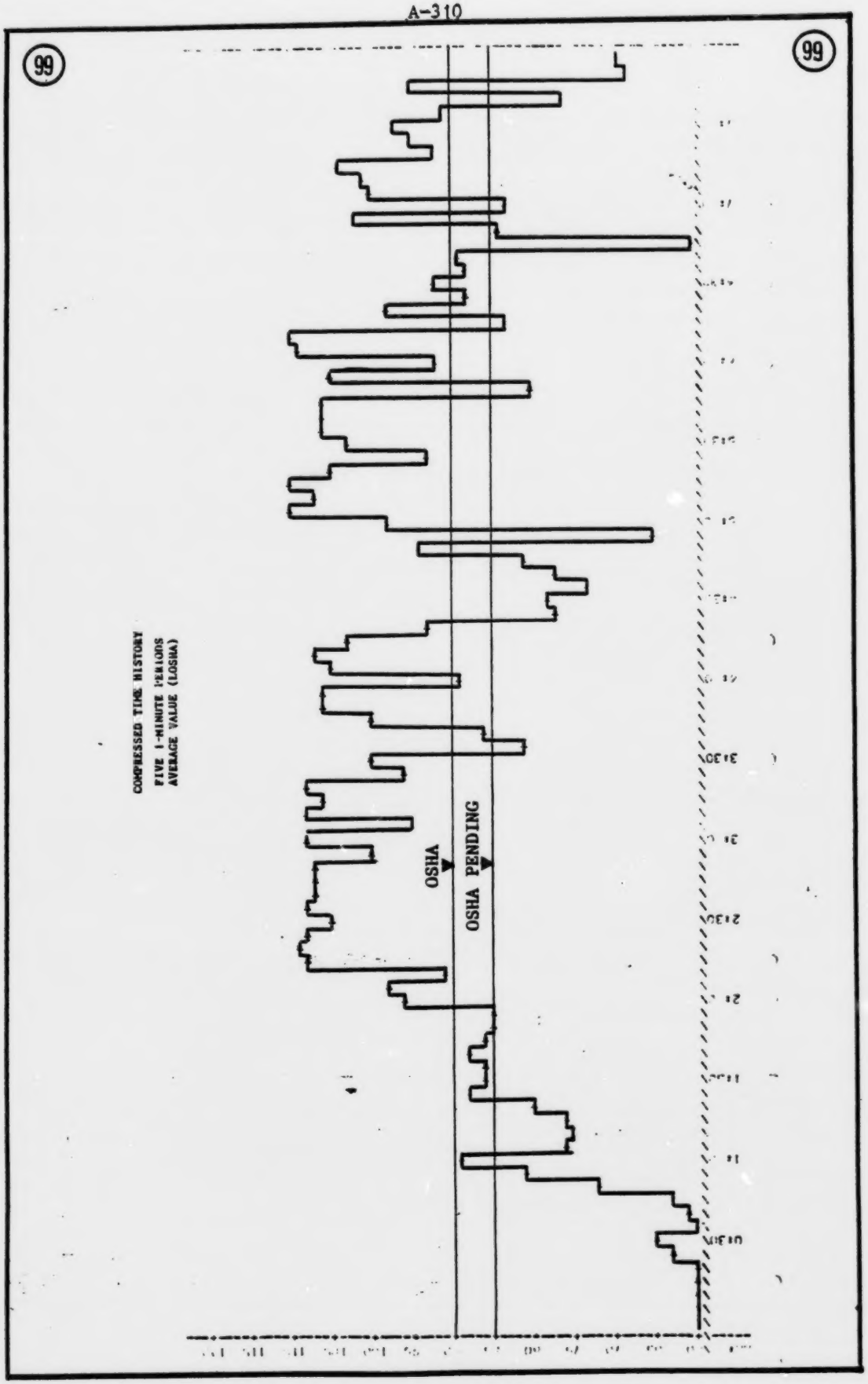

98
98
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

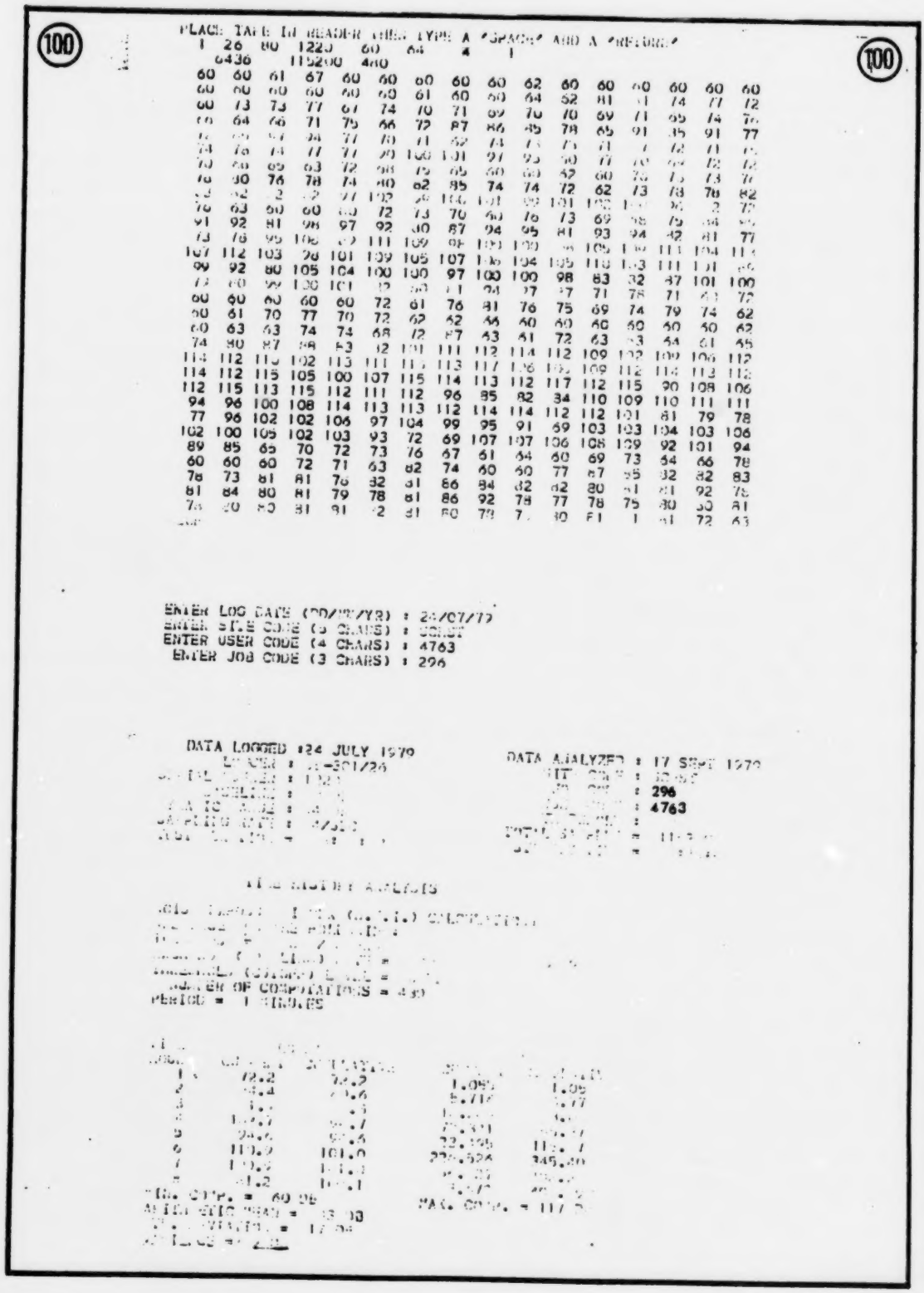
99

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  30  1216   60   64    4    1
   8433     115200  480
 60  60  60  62  60  60  60  60  60  60  60  61  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  63  60  68  63  73  60
 60  60  60  60  61  60  60  60  60  64  60  60  62  60  62  62
 60  68  72  65  69  78  72  64  68  60  79  91  82  72  81  88
 97  79  78  77  68  72  75  79  68  74  73  77  79  72  77  75
 80  78  81  79  80  76  70  97  86  85  86  85  85  86  86  86
 86  85  86  85  86  85  94  86  86  85  86  85  86  86  86  85
 85  85  86  87  85  84  85  85  85  89  91 100 101 107  92  92
 91  91  91  91  91  91  91  95 108  93 113 111 109 102 106 113
111 107 101 104 108 113 111 103  92  93 109 112 112 108  94  92
111 109  92  95 111 109  91 104 110 111 105 106 111 104 105  94
107 103  92  91  95 105 109 109 112 100  91  91  89 106 101
110  89 111 111 109 106  92  97 110 111 111 103  90  90  92  99
100  91 102 107  86  98  83  84  60  63  74  88  83  90  85  84
 87  92  93  89 108  99 108 106  98 111 102 108 103  99 109 105
 89  89  96  84  89  77  92 108 107 110 105 111 105 109 104 103
108 106  92  93  85  73  96  99  83  79  75  77  75  77  79  76
 76  77  80  78  76  68  85  67  68  81  77  75  79  78  80  83
 83  80  80  78  88 100  99  73  60  60  60  63  85  60  60 104
105 111 111 108 111 111 111 106  91 106 111 112 112 110  99 110
110 110 102  91  91  91  94  85  87 100 108  89  85 105 105 106
104 105 107 103 107  87  96 109 111 109  72 107 112  99  70  75
 66  89  79  72 107 104 102 111  82  76  93 101  77 104 112 109
113 101 112 109 106 113 108  83  83  77  76  88  78 100 103 101
 88  92  60  71  91  90  94  88  94  88  94  90  95  85  62  63
 75  92  98  60  60  60  60  61  60  60  60  69  65  72  95  89
 83  84 109 108  81  80  84  83  86  89  82  77 104 107 103 110
 82  64  66  71  77 113 106  84  76  75  83 101  94  90  93  98
 97  92  97  96  98 101  85  87 101  86  75  72  77  71  76  67
 82  84  85 100 100  90  61  62  76  64  63  61  77  62  63  66
%EOF

ENTER LOG DATE (DD/MM/YR) : 24/07/79

ENTER SITE CODE (5 CHARS) : SCHST
ENTER USER CODE (4 CHARS) : 4735
 ENTER JOB CODE (3 CHARS) : 296

   DATA LOGGED :24 JULY 1979                DATA ANALYZED : 17 SEPT 1979
        LOGGER : DB-301/26                      SITE CODE : SCHST
SERIAL NO GEN : 1216                           JOB CODE : 296
      BASELINE : 60 DB                         USER CODE : 4735
DYNAMIC RANGE : 96 DB                          THRESHOLD : 60 DB
SAMPLING RATE : 4/SEC                     TOTAL SAMPLES = 11520
TEST DURATION = 48 HRS 0 MIN              DURATION OF TEST = 1920 MIN

          TIME HISTORY ANALYSIS

ARIS  PROGRAM 1 SEX (A.S.I.) CALCULATIONS
SUB  SUBROUTINE FOR SEX
FFT  N = 256 / 4 CHS
PROG. V (FOR LI 5) FFT = 5 %
THRESHOLD (CUTOFF) LEVEL = 60 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

BAND          SPECTRUM LEVEL                    SEX
 NUM    CURRENT   CUMULATIVE          CURRENT   CUMULATIVE
   1       64.1        64.1             .598         .60
   2       64.1        64.4            5.378         6.57
   3       65.3        64.5           10.201        16.69
   4       65.4        64.7           20.173       191.03
   5       64.2        64.2           31.367       222.40
   6      105.2       103.5          102.718       325.11
   7       64.9       103.4           46.266       371.40
   8       65.4       103.0           24.477       395.25
MIN. COMP. = 60 DB                 MAX. COMP. = 113 DB
ARITHMETIC MEAN = 76 DB
STD. DEVIATION = 11 DB
CORRELATION = .7 ...
```

99


AMPLITUDE DISTRIBUTION
99
99
FREQUENCY DISTRIBUTION
FREQUENCY
NUMBER
PER CENT
GROUP
77 16.0 60 TO 64
19 4.0 65 TO 69
20 4.2 70 TO 74
48 10.0 75 TO 79
33 6.9 80 TO 84
62 12.9 85 TO 89
54 11.3 90 TO 94
26 5.4 95 TO 99
39 8.1 100 TO 104
57 11.9 105 TO 109
45 9.4 110 TO 114
0 0.0 115 TO 119
TOTAL NO. OF DATA POINTS = 480
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


99
99
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING



PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1220 60 64 4 1

6436 115200 440

60	60	61	67	60	60	60	60	60	62	60	60	60	60	60	60
60	60	60	60	60	60	61	60	60	64	62	81	61	74	77	72
60	73	73	77	67	74	70	71	69	70	70	69	71	65	74	76
66	64	66	71	75	66	72	87	86	85	78	65	91	85	91	77
76	69	67	84	77	70	71	82	74	73	73	71	71	78	71	69
74	76	74	77	77	70	108	101	97	93	90	77	70	69	82	72
70	68	69	63	72	68	72	65	60	60	62	60	70	73	73	76
76	80	76	78	74	80	82	85	74	74	72	62	73	78	78	82
82	82	82	82	77	102	96	106	101	99	101	102	101	96	82	79
76	63	60	60	60	72	73	70	60	76	73	69	68	79	84	80
91	92	81	98	97	92	80	87	94	95	81	93	94	82	81	77
73	76	95	106	99	111	109	98	103	100	98	105	100	111	104	114
107	112	103	98	101	109	105	107	106	104	105	110	103	111	101	96
99	92	80	105	104	100	100	97	100	100	98	83	82	87	101	100
73	60	99	130	101	95	93	91	94	97	97	71	78	71	63	72
60	60	60	60	60	72	61	76	81	76	75	69	74	79	74	62
60	61	70	77	70	72	62	62	66	60	60	60	60	60	60	62
60	63	63	74	74	68	72	87	63	61	72	63	63	64	61	65
74	80	87	98	83	92	101	111	112	114	112	109	102	109	106	112
114	112	110	102	113	111	112	113	117	116	112	109	112	114	113	112
114	112	115	105	100	107	115	114	113	112	117	112	115	90	108	106
112	115	113	115	112	111	112	96	85	82	84	110	109	110	111	111
94	96	100	108	114	113	113	112	114	114	112	112	101	81	79	78
77	96	102	102	106	97	104	99	95	91	89	103	103	104	103	106
102	100	105	102	103	93	72	69	107	107	106	108	109	92	101	94
89	85	65	70	72	73	76	67	61	64	60	69	73	64	66	78
60	60	60	72	71	63	82	74	60	60	77	87	85	82	82	83
78	73	81	81	76	82	81	86	84	82	82	80	81	81	92	78
81	84	80	81	79	78	81	86	92	78	77	78	75	80	80	81
76	80	80	81	91	82	81	80	79	76	80	81	1	81	72	63

ENTER LOG DATE (DD/MM/YR) : 24/07/79
ENTER SITE CODE (5 CHARS) : CCNST
ENTER USER CODE (4 CHARS) : 4763
ENTER JOB CODE (3 CHARS) : 296

DATA LOGGED :24 JULY 1979

DATA ANALYZED : 17 SEPT 1979

: 296
: 4763

NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

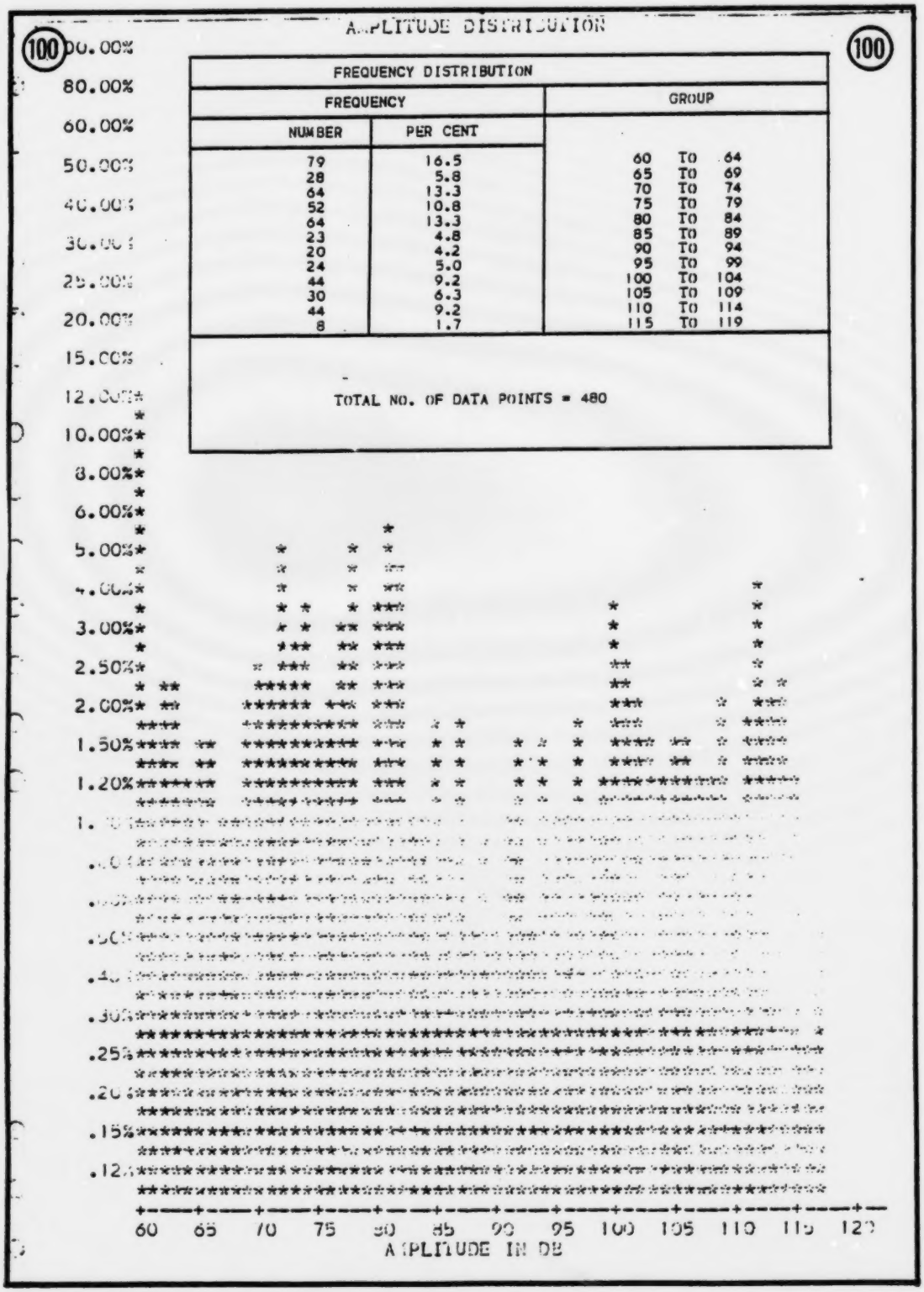
1	72.2	74.2	1.095	1.09
2	74.4	74.6	5.714	5.77
3	1..	.3	1.....	..
4	1..7	..7	7..31	..7
5	94.6	96.6	33.138	113.7
6	110.2	101.0	336.524	345.20
7	1..2	1..1	9..33	..2
8	1.2	1..1	3..13	4..2

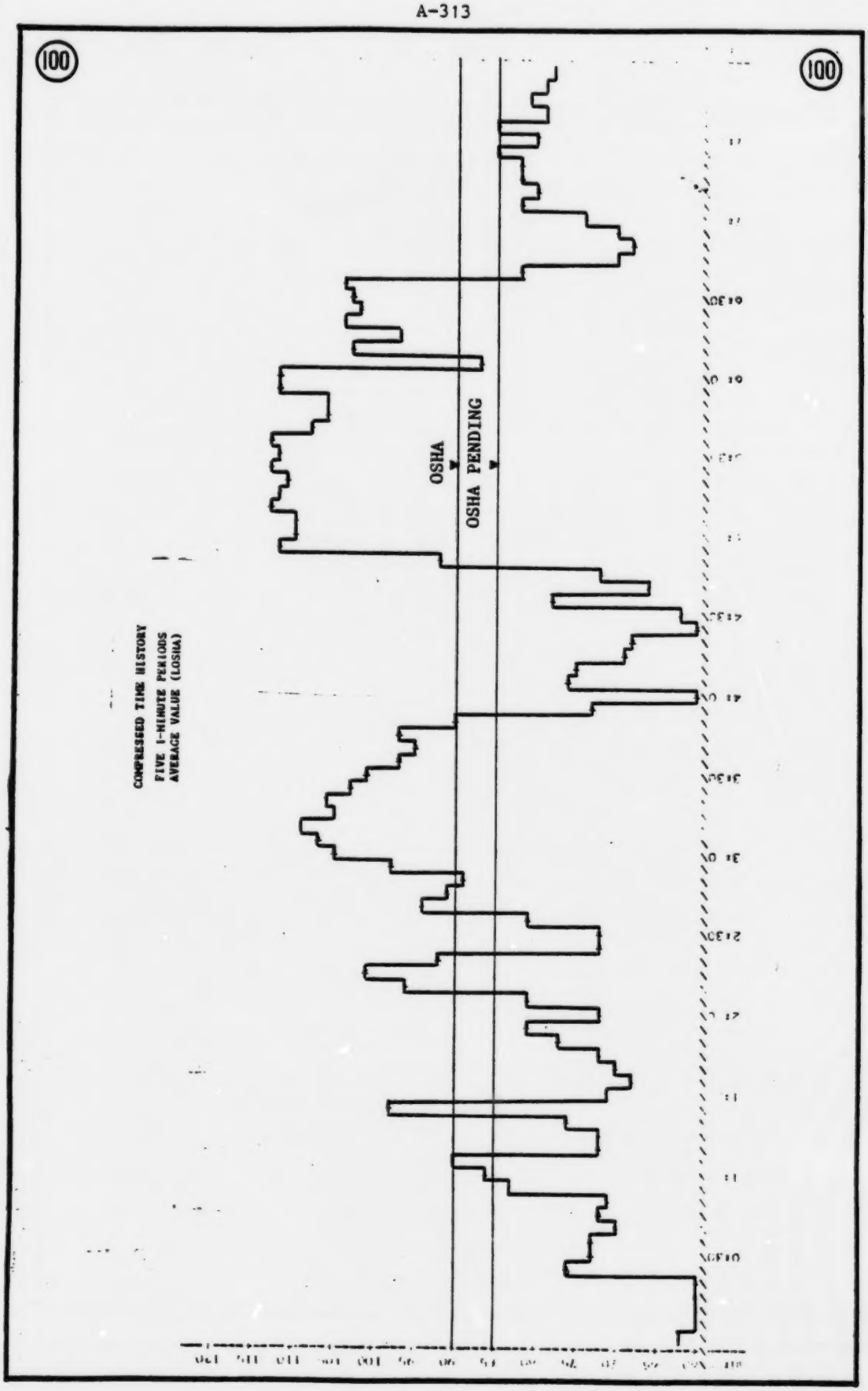
MIN. CONC. = 60.06 MAX. CONC. = 117.5
ARITH. MEAN = 85.03
..... = 17.04
..... = 2.0

AMPLITUDE DISTRIBUTION

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
79	16.5	60 TO 64
28	5.8	65 TO 69
64	13.3	70 TO 74
52	10.8	75 TO 79
64	13.3	80 TO 84
23	4.8	85 TO 89
20	4.2	90 TO 94
24	5.0	95 TO 99
44	9.2	100 TO 104
30	6.3	105 TO 109
44	9.2	110 TO 114
8	1.7	115 TO 119

TOTAL NO. OF DATA POINTS = 480




100
100
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(101)

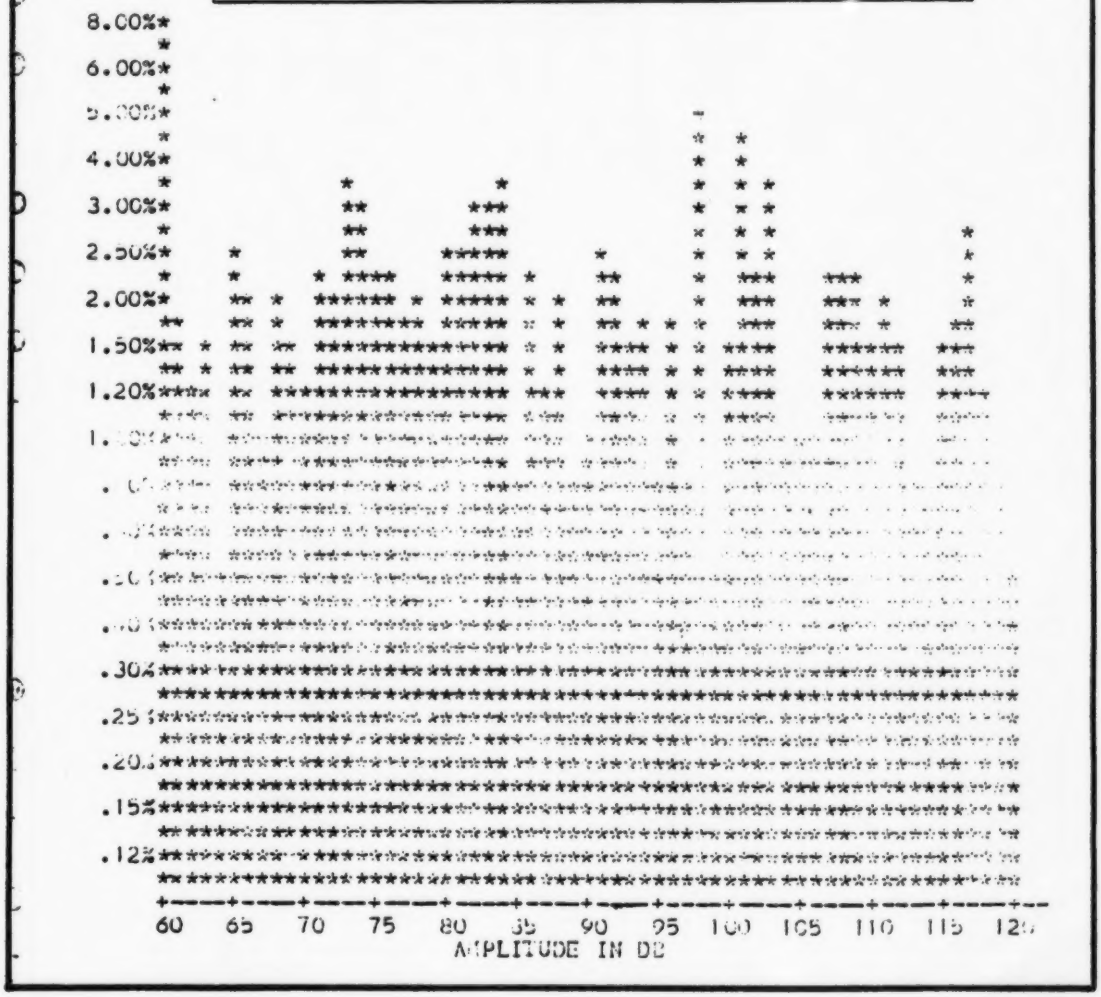
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

  1  26  80  1219    60    64     4     1
    /506      115200  480
 63  60  60  60  60  60  60  61  60  60  60  60  60  60  60  60
 60  60  74  70  80  79  71  75  75  80  74  79  78  73  74  68
 72  77  75  83  82  70  79  78  69  73  76  73  80  80  72  78
 77  80  76  90  87  87  84  82  72  93  97  81  75  72  86  98
 96  80  73  71  67  78  77  80  81  76  80  81  82  83  84  78
 81  85  90 102 101  96  95  82  76  83  82  80  67  82  83  77
 72  64  68  73  61  69  71  76  79  69  70  74  58  62  68  72
 81  79  91  95 100  88  96 103  86  96 101  96  86  94 102 101
101 101 103  97  94 101  88  71  60  65  60  60  60  60  60  62
 74  74  72  69  66  66  60  73  77  70  76 109 105 111 102 110
113 113 110  96 114 117 116 102 114  94  84  87  86  86  86 117
113 103 115 117 117 105 111  86  91 111 109  92  92  86 106 112
111 108  94 108 112  98  83  94  91  93  91  83  83  84  89  87
 89 103 101 103  87 103 104  83  94  93 108 112 117 111 107 115
119 114 109 117 117 105  91  90  94  88 102 116 109 111 109 111
100 108  82  83 101 112 116 114 113 101  93  91  91  88 102 110
101 106 107  92  95 101  94  84  79  74  71  68  73  71  65  65
 71  65  61  66  62  63  64  65  75  71  68  77  73  76  81  75
 74  73  78  93  99 100  90  81  82  83  82  81  81  94 100 110
112 109 116 116 119 117 110 120 120 114 117  92 116 118 118 115
 93 118 117 117 114 118 101 115 115 112 107 103 106 102  92  89
 92 104 115 111 103 104 103  96  84  84  92  91  84  83  84  93
 84  83  84  91  86  92  91  77  82  85  82  74 107 107 106 107
 99 109  98 107 109  86  73  65  68  85  73  69 100 102  67 109
103  71 107 103 103 108 102 107 101 108 103 105  74  80  72  92
104  94  81  76  60  60  66  63  63  65  86 101 101 103 103 106
 97 101 101  98  98  98  98  98  98  98  98  98  98  98  98  98
 98  98  98  96 104  76  74  74  60  67  88  62  63  64  60  65
 61  60  69  65  75  78  84 101 100  82  60  60  62  55  61  66
 61  73  70  73  66  63  74  73  66  61  75  76  46  46  75  62
%EOF


ENTER LOG DATE (DD/MM/YR) : 24/07/79

ENTER SITE CODE (5 CHARS) : SCHST

ENTER USER CODE (4 CHARS) : 4718
 ENTER JOB CODE (3 CHARS) : 296


   DATA LOGGED :24 JULY 1979          DATA ANALYZED : 17 SEPT 1979
        LOGGER : DL-301/26                 SITE CODE : SCHST
SERIAL NUMBER  : 1214                     JOB CODE  : 296
    GAIN LINE  : 0 %                      USER CODE : 4718
 DATA ID BYTE  : 4 %                      ZERO LINE : 0 %
SAMPLING RATE  : 4/SEC                 TOTAL SAMPLES =  11520
TOTAL DURATION =  48 HRS 0 MIN         DURATION      =  2:31:12


                    TIME HISTORY ANALYSIS

RMS = SQRT(SUM(I-I.)**2/(N-1.)) CALCULATION
ARE USED TO REJECT DATA
DATA BIAS = 0 / 0 /
MAXIMUM (MINIMUM) ALLOWED = 0 %
MINIMUM (MAXIMUM) ALLOWED = 0 %
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


 MIN          LOWER                      UPPER
 HOUR    % ALLOWED  % ACTIVE      % ALLOWED  % ACTIVE
    1        79.0       79.0          2.739      2.14
    2        68.1       64.9          9.412     12.35
    3        [illegible]  [illegible]  [illegible]  [illegible]
    4        107.3      101.          [illegible]  [illegible]
    5        99.1       [illegible]   [illegible]  [illegible]
    6        110.7      104.0         231.377    524.66
    7        [illegible]  [illegible]  [illegible]  [illegible]
    8        [illegible]  [illegible]  [illegible]  [illegible]
[illegible] COMP. =  [illegible] %                MAX. OF A. = 123.1
AVER. SITE CHAR =  [illegible]
STD. DEVIATION =  [illegible]
[illegible] =  [illegible]
```

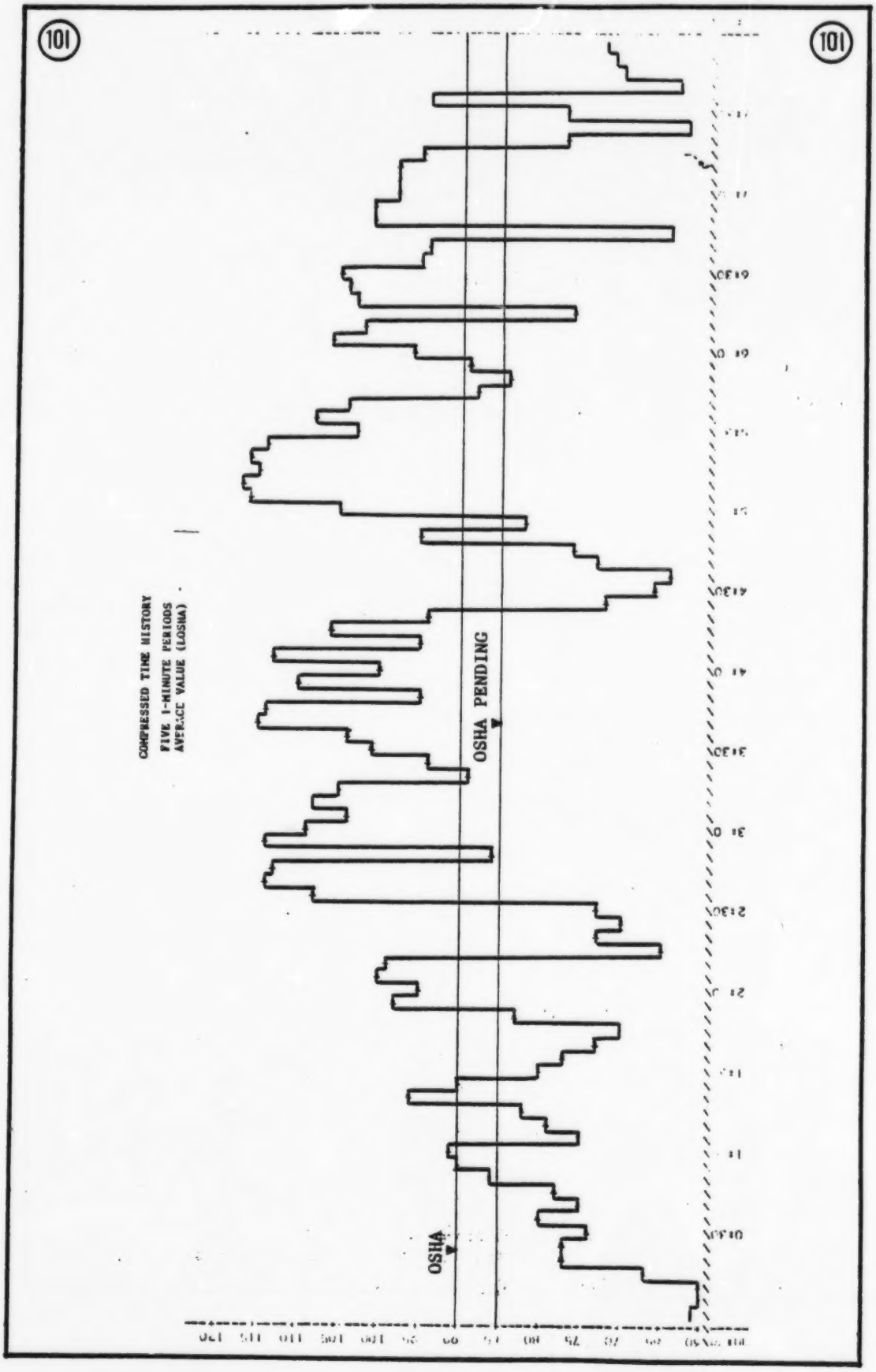
(101)

AMPLITUDE DISTRIBUTION

(101)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
50	10.5	60 TO 64
36	7.5	65 TO 69
49	10.3	70 TO 74
39	8.2	75 TO 79
61	12.8	80 TO 84
28	5.9	85 TO 89
36	7.5	90 TO 94
35	7.3	95 TO 99
51	10.7	100 TO 104
35	7.3	105 TO 109
26	5.4	110 TO 114
32	6.7	115 TO 119
TOTAL NO. OF DATA POINTS = 480		

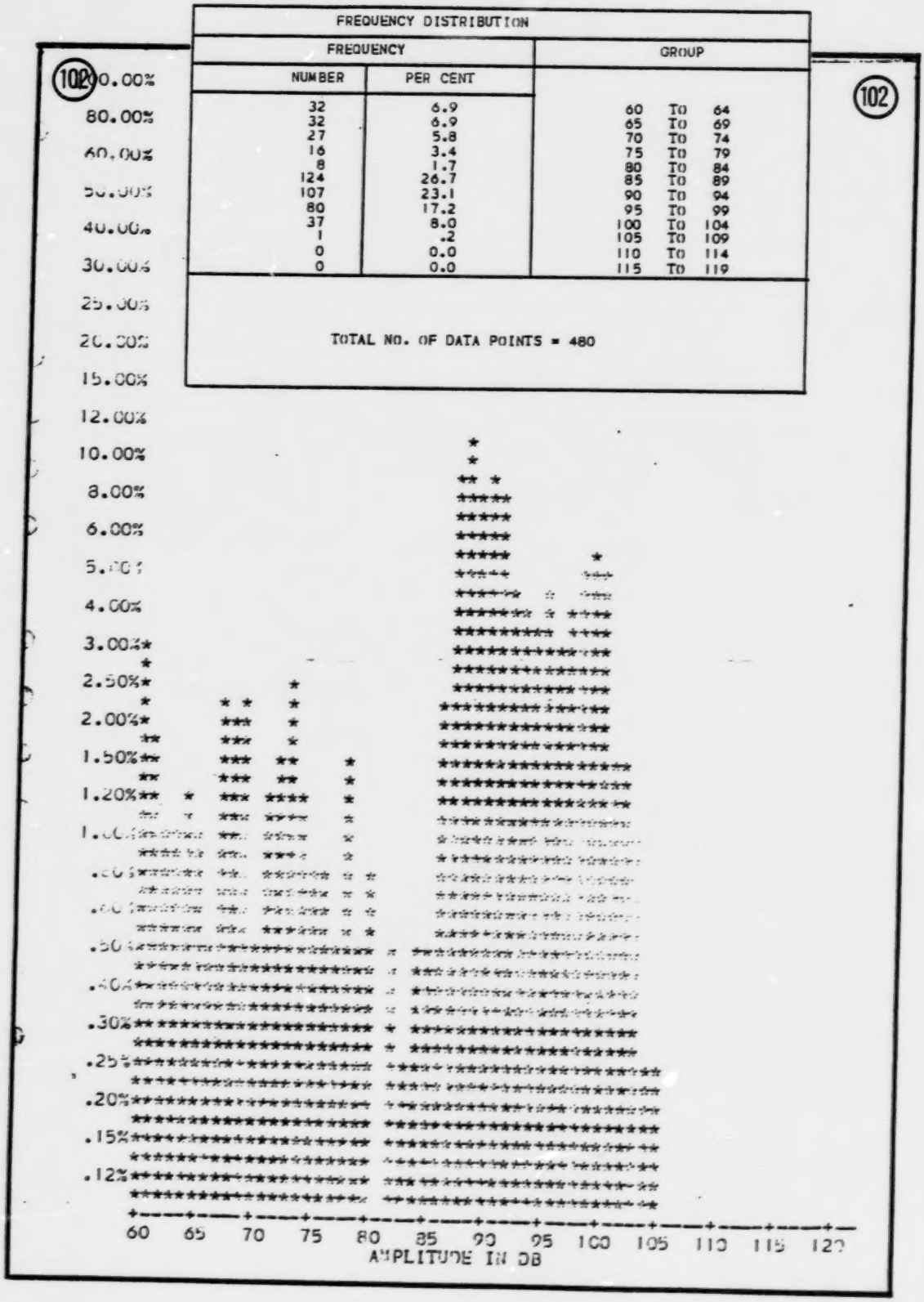



101
101
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA PENDING
OSHA

(102)

(102)

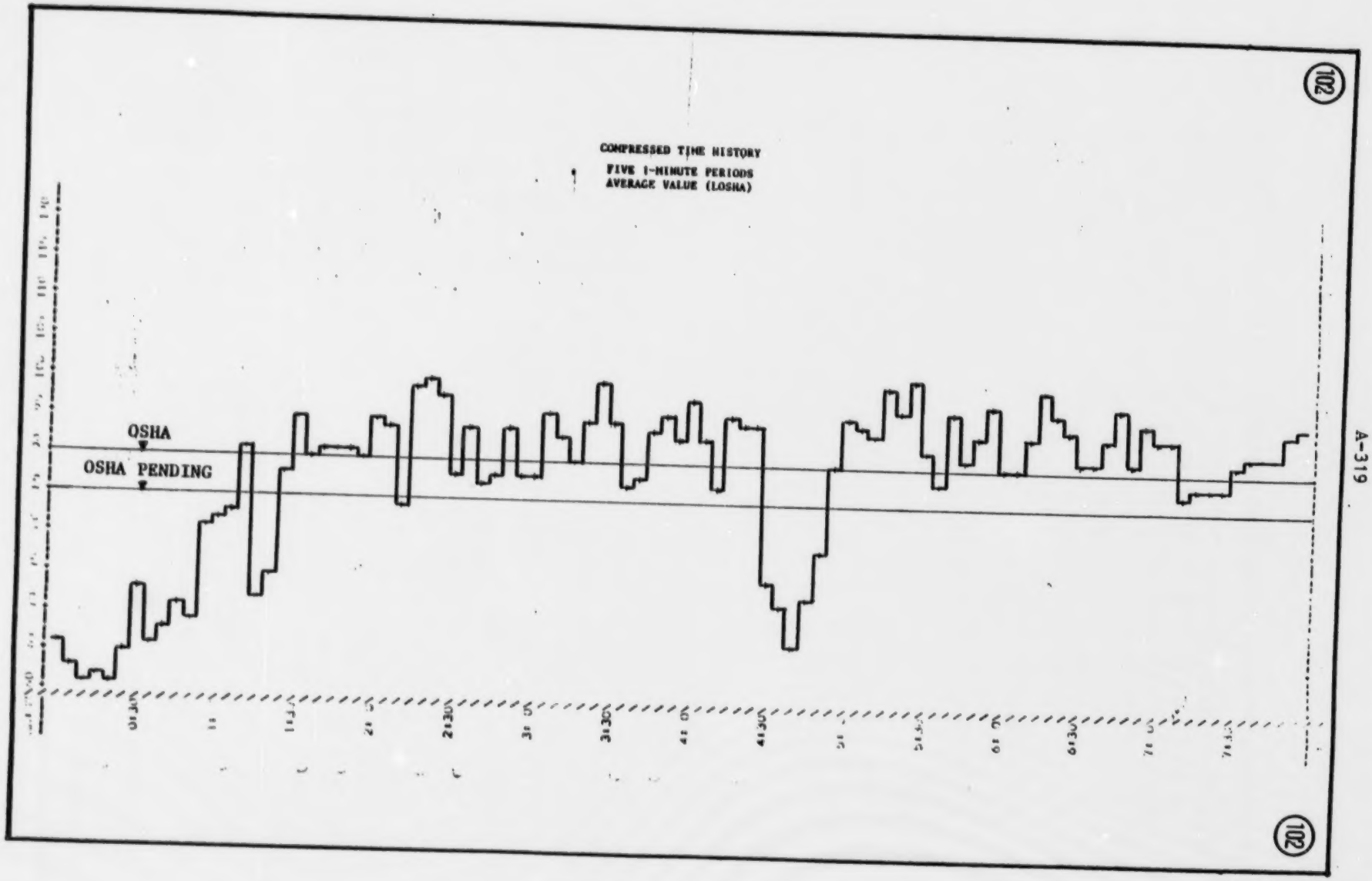
```
 1  26  80  121*   60   64    4    1
     4930      115200  480
 73  64  60  61  60  68  61  60  61  60  60  60  64  60  60  60
 65  64  60  62  60  62  63  60  62  63  61  61  67  69  77  64
 67  72  75  61  63  66  63  66  67  67  69  67  68  72  69  73
 71  66  75  69  63  65  64  74  66  80  85  86  85  84  84  90
 70  65  67  90  62  79  87  99  92  70  67  71  74  74  69  69
 72  68  75  72  69  71  73  77  74  98  97  93  94  98  90  90
 ..  ..  ..  ..  ..  ..  ..   1  ..  ..  ..  ..  ..  ..  ..   1
 92  91  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..
 71  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..
 99 101 100 100  95  89  89  96  97  97  98  89  93  88 100  93
 ..  ..  ..  ..  ..  ..  ..  ..  ..   7  ..  ..  ..  ..  ..  ..
 87  89  93  85  87  89  ..  ..  ..  ..  87  ..  ..  ..  ..  ..
 96  98  90  91  91  90  ..  ..  ..  89  89  95  99  96 100 103 101
 ..  95  ..  ..  ..  91  ..  ..  ..   7  ..  ..  ..  ..  ..  ..
 ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..
 89  89  98 103 102  94  98  92  96  93  87  89  87  87  87  86
 ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..
 73  75  ..  73  71  74  ..  72  ..  ..  72  ..  ..  ..  ..  ..
 73  73  75  78  75  83  79  76  74  78  ..  ..  ..  ..  ..  ..
 ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..
 97  97  98  97  95 100  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..
 ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..
 96  94  94  88  88  90 104 102  94  88  89  88  90  90  90  89
 89  90  94  89  93  89  99 102 100  98  99  96  98  98  90  94
100  97  92  91  99  92  89  91  91  92  92  97  ..  89  89  ..
 90  91  92  94  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..
 97  99  91  92  94  98  89  ..  89  89  93  ..  ..  ..  ..  ..
 87  86  87  88  88  88  87  86  ..  87  88  ..  ..  ..  ..  ..
 89  89  90  92  93  90  90  90  91  93  93  90  91  92  93  92
 90  90  91  93  90  93  92  97  95  95  97  99  97  99  96  73
%EOF


ENTER LOG DATE (DD/MM/YR) : 24/07/79
ENTER SITE CODE (5 CHARS) : SCHSI
ENTER USER CODE (4 CHARS) : 4719

 ENTER JOB CODE (3 CHARS) : 296


    DATA LOGGED :24 JULY 1979
          LOGGER : 34-301/26
 SAMPLING RATE : 4/SEC
 NUMBER OF SAMPLES = 480

DATA ANALYZED : 17 SEPT 1979
          SITE CODE : SCHSI
          JOB CODE : 296
          USER CODE : 4719
          CHANNEL :
 TOTAL SAMPLES =  11...
          DATE =  ...

          TIME HISTORY ANALYSIS

 ...  ...NUMBER 1 ...(C.F.I.) CALCULATING
 ...  ...E TIME PERIOD
 F...  ...= ... / ...
 ...  ...E (CELSIUS) ... =  ...
 ...  ...OL (CELSIUS) LEVEL =  ...
   NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

 ...          ...
HOUR    CUMULATIVE          ...  CUMULATIVE
   1        69.9              69.9          .769          .77
   2        ...9              ...4         10.736        11.50
   3        ...3              ...3          ...           ...
   4        ...9              ...8          ...           ...
   5        90.9              90.8          ...           ...
   6        96.1              93.0          ...           ...
   7        ...8              ...4          ...           ...
   8        92.0              93.4          ...           ...
MIN. COMP. =  ...
ARITHMETIC ...
STD. DEVIATION =  ...
VARIANCE =  ...
```



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
32	6.9	60 TO 64
32	6.9	65 TO 69
27	5.8	70 TO 74
16	3.4	75 TO 79
8	1.7	80 TO 84
124	26.7	85 TO 89
107	23.1	90 TO 94
80	17.2	95 TO 99
37	8.0	100 TO 104
1	.2	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
102
201

(103)

```
 1  75  80  1225      60      64      4      1
  .241       115230   480
 64  60  60  60  61  61  67  61  60  60  60  60  61  61  63  60
 60  63  63  60  60  60  60  61  61  61  63  60  61  66  67  75
 74  70  71  65  67  63  72  65  61  60  61  62  61  60  61  64
 64  69  68  71  74  70  67  74  76  65  67  68  72  67  77  94
 68  79  81  85  83  89  91  74  76  74  75  72  76  73  76  73
 69  72  74  77  75  78  76  77  76  81 101  99  98  96  95  87
 [illegible]
 [illegible]
101 100  97  96  79  82  83  81  86  85  84  86  88  85  87  84
 [illegible]
 [illegible]
 97 106 100 105 102 101 103  96  99 107 105 101 106 103  95 109
103 [illegible]
 [illegible]
 78  73  69  73  60  60  60  60  60  72  62  66  63  75  70  70
 72  [illegible]
 66  60  60  62  73  67  60  65  61  63  65  61   1  63  73  72
 67  66  62  60  70  72  90  80  89  75  97 103 107 108 107 106
 93 102  90 106 102 107 104  93 105 107 107 107 110 104  96 106
103 112 109 111 102 110 110 107  97  97 105 110 [illegible]
111 [illegible]
111  98 112  97 100  82  91  96  77  80  87  86  89  82  91 110
104  75  86  78  69  96 100 112 110 107 105 111  99  96  76 101
111 105 110 110 105 109 107 112 101  80  82  97  85  83  83
 62  75  69  98  95  81  63  75  78  77  84  83  80  80  77  61
 61  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 65  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  61  60  62  84  86  74  60  60  60  62  73  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
%EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 24/07/79

ENTER SITE CODE (5 CHARS) : SCHST

ENTER USER CODE (4 CHARS) : 4729
 ENTER JOB CODE (3 CHARS) : 296
```

```
   DATA LOGGED :24 JULY 1979          DATA ANALYZED : 17 SEPT 1979
       LOGGER : [illegible]-321/26          SITE CODE : SCHST
[illegible]                 1225                JOB CODE : 296
[illegible]                                     USER CODE : 4729
[illegible]                                   [illegible]
[illegible]                 [illegible]       [illegible]
[illegible]                 [illegible]       [illegible]
```

```
          [illegible] ANALYSIS

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
  [illegible] OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

[illegible]
[illegible]
   1      65.9        69.9          .445         .44
   2      [illegible]   [illegible]   [illegible]   [illegible]
   3      [illegible]   [illegible]   [illegible]   [illegible]
   4      [illegible]   [illegible]   [illegible]   [illegible]
   5      72.5        [illegible]   [illegible]   [illegible]
   6      105.0       [illegible]   [illegible]   [illegible]
   7      [illegible]   [illegible]   [illegible]   [illegible]
   8      [illegible]   [illegible]   [illegible]   [illegible]
[illegible] CORR. = .60 [illegible]
[illegible]
[illegible]
[illegible]
```

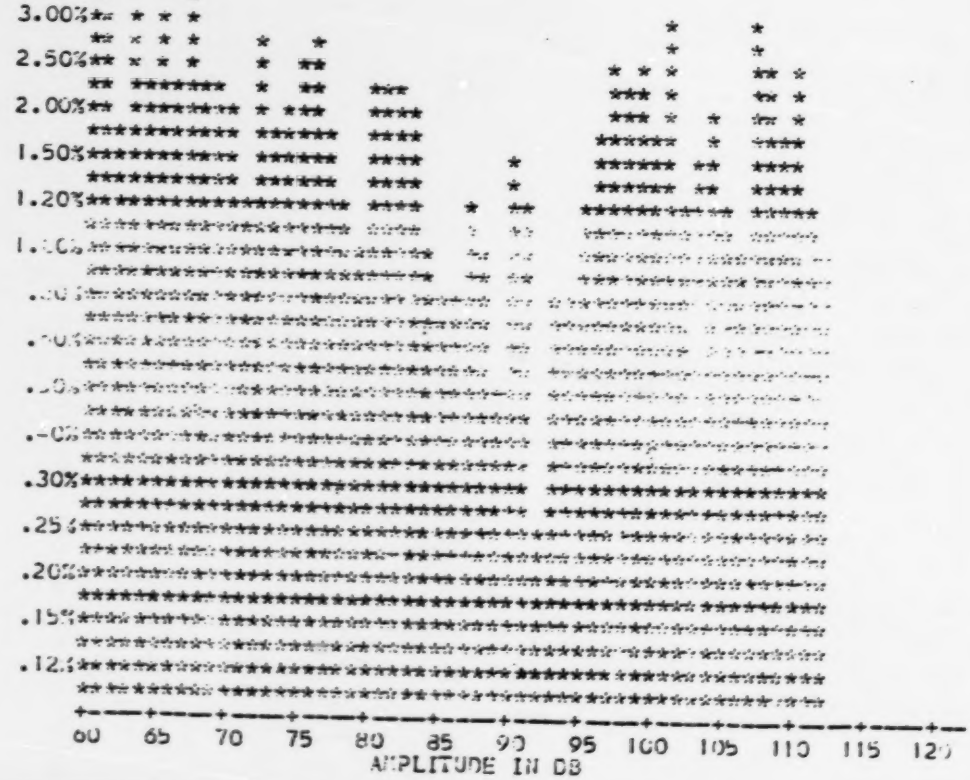
AMPLITUDE DISTRIBUTION

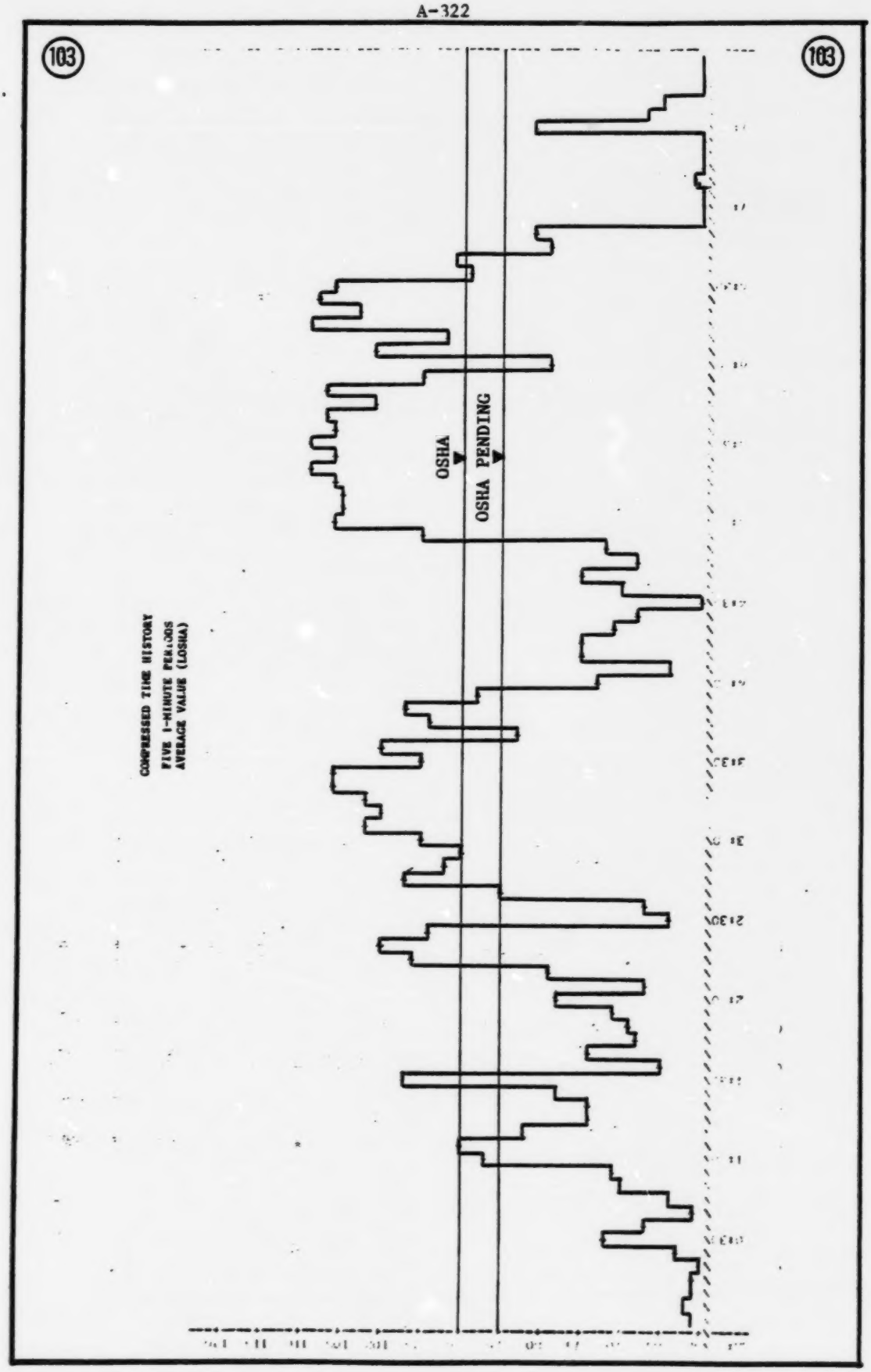
(103)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
137	28.5	60 To 64
56	11.7	65 To 69
39	8.1	70 To 74
37	7.7	75 To 79
39	8.1	80 To 84
17	3.5	85 To 89
18	3.8	90 To 94
41	8.5	95 To 99
39	8.1	100 To 104
38	7.9	105 To 109
19	4.0	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480

(103)




103
103
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

(104)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1226    60   64    4    1
      48      115200  480
  73  77  60  72  72  73  72  66  76  75  77  68  76  80  72  72
  76  78  83  82  82  80  74  74  74  77  75  76  71  68  72  83
  97 100 100 100 100 100 101 101 101  92  97  97  90  68  60  60
  60  60  60  65  62  74  60  60  67  68  61  63  60  65  61  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  61  62  60  60  60  63  73  60  60
  61  72  93  96  87  61  69  92  84  77  69  91  98  74  81  83
  82  81  82  82  83  83  82  81  73  75  84  90  93 106 108 104
  91  90  90  90  90  82  82  84  80  83  81  80  81  81  86  87
 100  81  84  89  80  80  79  84  80  79  80  79  79  79  79  80
  78  84  62  60  75  81  81  86  94  91  89  83  84  84  84  83
  65  66  64  72 103 108  98  87  85  86  89  91  91  91  89  87
 103 104  99  99 100 100 106  99  99  98  84  87  96  92  95  97
 108 108  89 101 111  95  97  85  60  84  76  63  60  60  61  60
  63  77  78  93  98 105 105 104  97  90  89  90  90  89  88  90
  90  60  75  70  83  91  92 103 103  97  94  83  75  67  69  60
  60  60  60  60  60  60  60  60  63  60  60  69  60  60  60  60
  60  60  62  60  68  68  60  60  61  60  63  60  60  60  67  68
  64  60  61  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  67  66  74  65  60  60  61  62  60  61  61  60  60  60  62
  63  60  60  60  60  60  60  60  60  60  93  94  80  83  89  76
  81  87  89  87  78  94  87  69  84  86  74 106 102 100  91 104
  94  72  60  90  90  72  66  73  65  78  60  60  60  60  70  60
  62  60  61  62  65  61  61  65  77  60  60  60  60  60  60  60
  60  60  60  60  69  64  60  60  60  60  62  60  60  60  60  60
  60  62  67  64  67  60  62  60  62  60  60  60  61  66  60  68
  60  62  67  65  68  60  60  60  60  60  63  67  70  62  60  60
  60  60  61  60  64  60  60  60  60  66  68  61  60  62  64  69
  71  65  67  66  75  61  65  67  63  66  69  72  71  70  68  74
  65  61  67  76  68  74  82  97  96  95  95  97  99  97  95  95
%EOF


ENTER LOG DATE (DD/MM/YR) : 18/07/79
ENTER SITE CODE (5 CHARS) : CC202
ENTER USER CODE (4 CHARS) : 9612
 ENTER JOB CODE (3 CHARS) : SHI


   DATA LOGGED :18 JULY 1979          DATA ANALYZED : 14 SEPT 1979
       LOGGER : 08-301/26                 SITE CODE : CC201
SERIAL NUMBER : 1226                       JOB CODE : SHI
     BASELINE : 50 DB                    USER CODE : 9612
DYNAMIC RANGE : 64 DB                     THRESHOLD : 60 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0             STANDBY TIME =   0: 0:12

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOGIA                    DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      88.6       88.6       10.234      10.23
   2      78.9       85.2        2.687      12.92
   3      69.7       87.1       12.012      24.93
   4      97.7       91.5       36.250      61.18
   5      82.8       90.4        4.595      65.78
   6      87.5       90.0        8.838      74.62
   7      63.9       89.9         .334      74.95
   8      83.4       89.4        4.995      79.95
MIN. COMP. =  60 DB              MAX. COMP. = 111 DB
ARITHMETIC MEAN =  72 DB
STD. DEVIATION =  14 DB
VARIANCE =195 DB
```

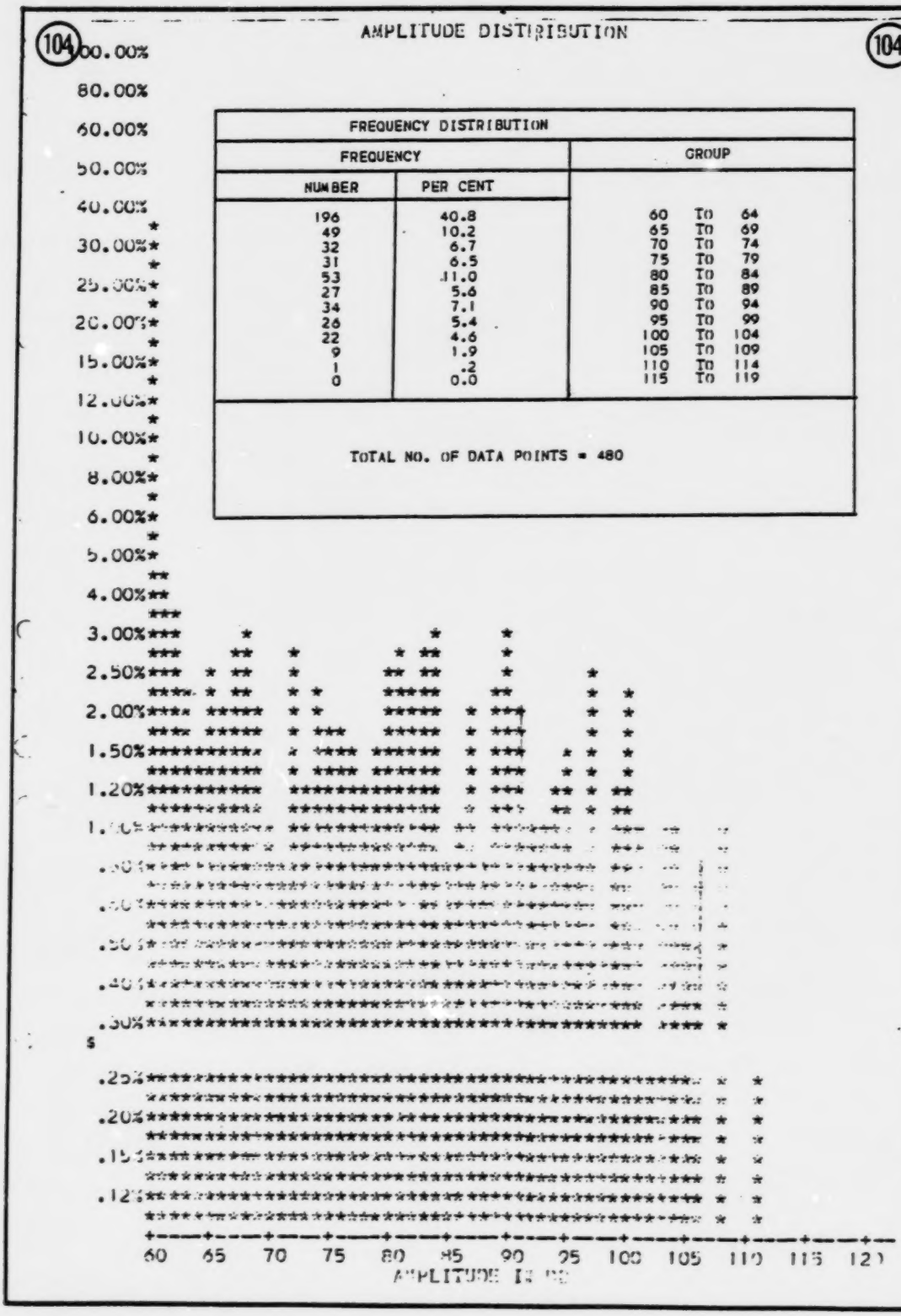
(104)

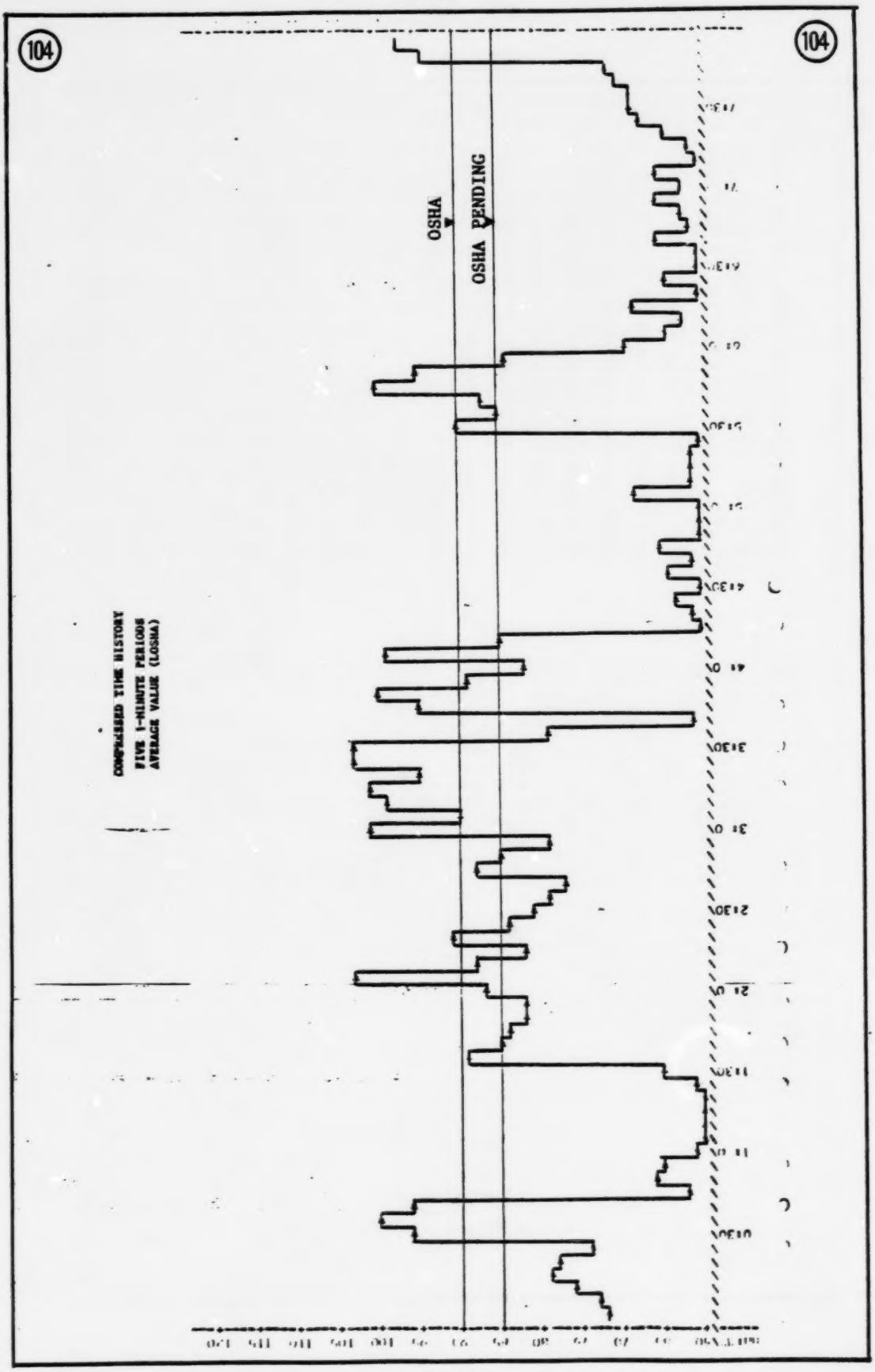
AMPLITUDE DISTRIBUTION

(104) (104)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
196	40.8	60 TO 64
49	10.2	65 TO 69
32	6.7	70 TO 74
31	6.5	75 TO 79
53	11.0	80 TO 84
27	5.6	85 TO 89
34	7.1	90 TO 94
26	5.4	95 TO 99
22	4.6	100 TO 104
9	1.9	105 TO 109
1	.2	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




104
104
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

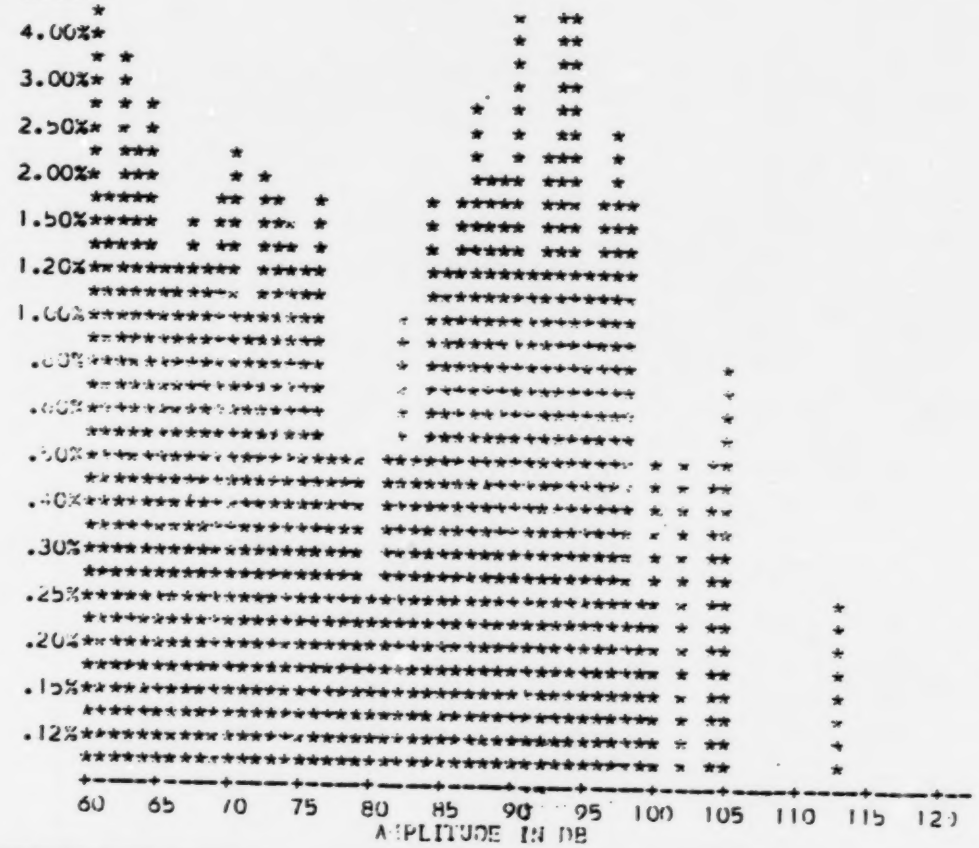
105 105

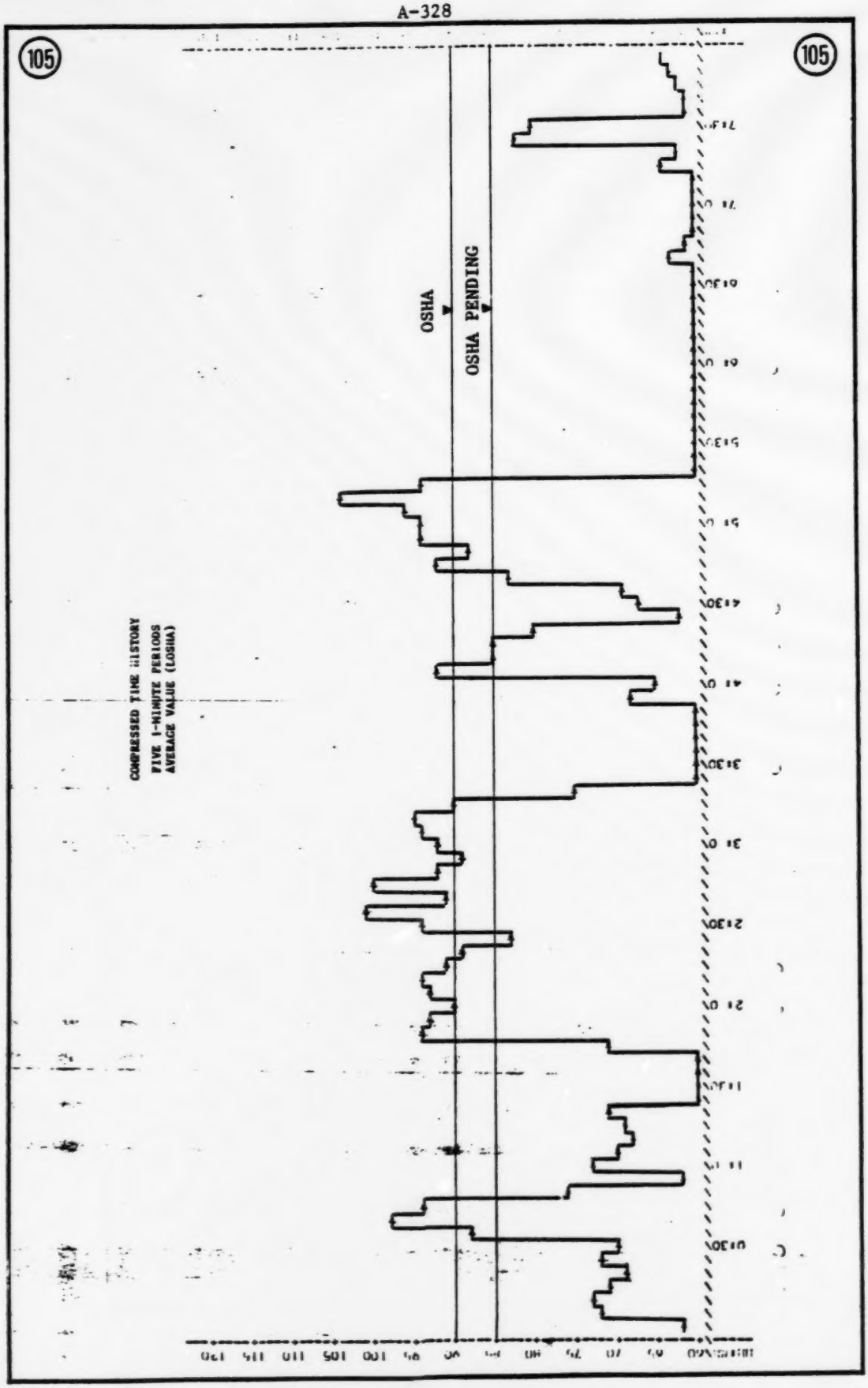
```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1226   60   64    4    1
      68     115200  480
  62  60  60  60  65  69  70  72  72  76  70  69  73  75  74  62
  65  64  75  76  70  71  65  67  70  70  72  73  72  73  72  62
  69  75  67  77  85  90  88  91  98  98  98  98  97  96  97  98
  89  82  82  78  76  71  60  60  60  60  66  64  68  73  69  76
  76  72  72  70  69  65  72  70  63  64  69  60  62  69  73  71
  76  74  60  68  62  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  76  74  70  82  94
 100  94  89  95  95  94  90  90  90  92  89  90  90  90  92  93
  97  93  93  96  92  94  96  92  93  87  87  92  93  87  87  92
  79  73  79  84  84  88  91  85  90  98  99 105 105 104  92  81
  82  87  95  90  95 102  97  90 105  97  93  96  93  89  88  89
  90  87  91  87  83  88  90  97  94  94  94  94  94  93  96  93
  96  98  93  92  90  90  91  89  84  75  60  60  60  60  60  60
  60  60  60  61  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  61  77  62  60  60
  60  60  64  70  64  83  86  84  97  97  87  86  85  84  81  63
  86  87  86  86  83  88  74  60  60  60  61  60  62  64  65  60
  63  61  74  75  71  60  64  64  67  67  80  89  88  87  90  93
  93  94  90  84  87  85  90  94  94  95  94  94  92  94  93  93
  97  97  96 102  89  84  93  93  94 104 113 100  94  94  91  68
  62  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  67  63  60  60  61  62  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  67  68  63  60  60  63  61  73  74  68
  86  88  86  78  85  60  66  60  63  60  62  60  60  62  60  62
  60  60  60  62  61  66  64  63  63  60  62  64  64  66  66  60
%EOF


ENTER LOG DATE (DD/MM/YR) : 20/07/79
ENTER SITE CODE (5 CHARS) : CC203
ENTER USER CODE (4 CHARS) : 9608
 ENTER JOB CODE (3 CHARS) : SHB


   DATA LOGGED :20 JULY 1979          DATA ANALYZED : 17 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : CC203
SERIAL NUMBER : 1226                         JOB CODE : SHB
      BASELINE : 60 DB                      USER CODE : 9608
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   0: 0:17

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES


TIME          LOSHA                      %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      85.2      85.2          6.394      6.39
   2      81.5      83.6          3.854     10.25
   3      94.0      88.9         21.815     32.06
   4      85.6      88.2          6.809     38.87
   5      86.0      87.8          7.181     46.05
   6      90.6      88.4         13.656     59.71
   7      60.3      87.3           .204     59.91
   8      70.3      86.4           .813     60.73
MIN. COMP. =  60 DB            MAX. COMP. = 113 DB
ARITHMETIC MEAN =  72 DB
STD. DEVIATION =  14 DB
VARIANCE =196 DB
```

105 AMPLITUDE DISTRIBUTION 105

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
236	50.8	60 TO 64
25	5.4	65 TO 69
28	6.0	70 TO 74
16	3.4	75 TO 79
16	3.4	80 TO 84
39	8.4	85 TO 89
65	14.0	90 TO 94
30	6.5	95 TO 99
6	1.3	100 TO 104
3	.6	105 TO 109
1	.2	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




105
105
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

106

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1216   60   64    4    1
  18569    115200  480
  65  70  67  70  78  78  73  67  74  64  68  65  75  64  65  74
  76  74  71  68  70  71  64  75  61  72  74  79  82  72  66  65
  68  72  75  62  75  64  72  76  87  96  95  96  93  86  81  82
  95  93  93  93  93  94  91  89  95  94  97  82  87  92  79  64
  70  74  87  93  97  91  95  95  95  94  99  94  94  89  96  88
  83  79  83  86  82  86  93  92  93  95  95  94  93  91  93  92
  95  97  93  95  90  90  92  91  92  91  91  89  90  83  87  87
  88  93  94  93  93  84  84  85  85  87  85  89  92  78  82  83
  86  91  90  84  82  78  84  91  93  93  94  95 106  89  76  81
  90  93  90  93  90  89  92  92  92  92  88  89  88  93  94  97
  95  92  92  96  93  89  89  88  91  90  93  86  87  92  92  93
  86  87  74  80  82  91  86  90  92  91  88  85  92  95  95  96
  95  89  93  93  95  93  93  94  94  92  95  93  93  92  91  97
  95  89  89  96  95  94  90  94  94  97  93  93  90  90  93  93
  93  90  73  65  60  85  88  95  95  87  89  80  67  70  71  72
  60  60  60  60  60  60  62  66  63  60  60  60  65  64  68  62
  66  71  60  61  60  79  67  65  66  61  65  70  80  79  67  70
  72  75  83  79  82  85  92  93  93  93  97  96  95  95  93  95
  93  94  85  80  81  77  74  75  79  83  80  94  93  94  81  63
  80  81  77  83  90  94  93  93  93  94  95  92  92  72  80  91
  88  74  73  83  80  79  77  93  90  75  87  90  93  94  98  93
  93  94  92  92  88  84  71  74  74  63  60  67  70  66  65  63
  61  65  70  62  69  64  64  66  69  61  71  76  73  72  73  75
  70  78  79  86  83  78  82  83  87  82  80  75  77  66  75  76
  67  60  62  65  69  74  63  63  76  77  73  71  72  70  69  69
  71  64  65  65  63  66  69  72  72  76  70  78  76  67  79  80
  77  76  65  71  80  80  77  76  74  74  78  77  76  72  77  70
  74  68  72  75  72  71  82  70  66  66  68  70  71  64  67  68
  72  76  68  63  72  70  70  74  70  63  60  61  62  78  74  79
  82  72  71  66  69  76  79  75  76  70  76  82  86  92  95  93
%EOF


ENTER LOG DATE (DD/MM/YR) : 11/07/79
ENTER SITE CODE (5 CHARS) : CC205
ENTER USER CODE (4 CHARS) : 9575
 ENTER JOB CODE (3 CHARS) : SHI
```

C

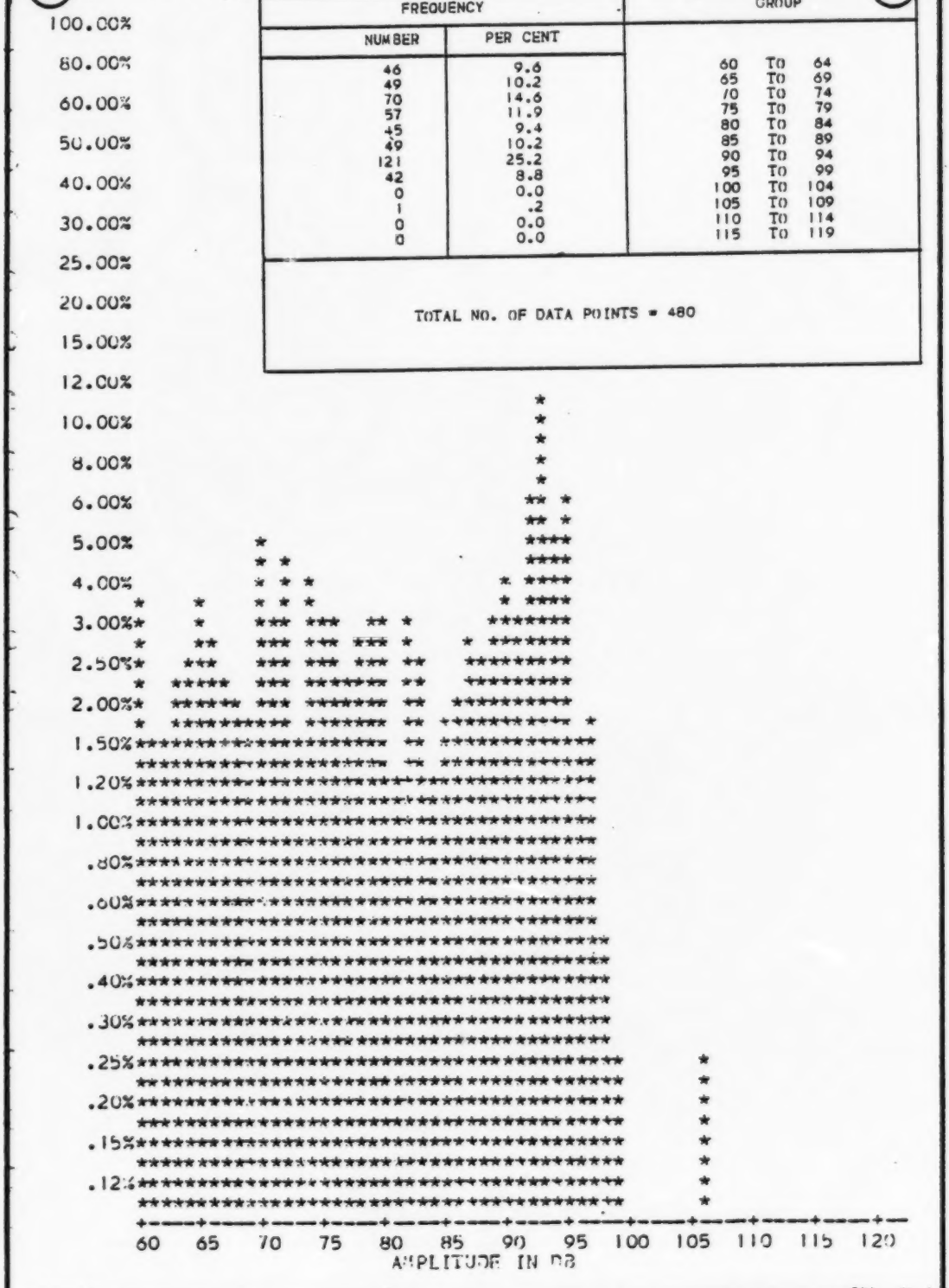
```
   DATA LOGGED :11 JULY 1979          DATA ANALYZED : 12 SEPT 1979
       LOGGER : DB-301/26                  SITE CODE : CC205
SERIAL NUMBER : 1218                        JOB CODE : SHB
     BASELINE : 60 DB                      USER CODE : 9575
DYNAMIC RANGE : 64 DB                      THRESHOLD :  80 DB
SAMPLING RATE :  4/SEC                 TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0               STANDBY TIME =   1:17:22

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                      %DOSE
HOUR    CURRENT  CUMULATIVE      CURRENT  CUMULATIVE
   1      85.5      85.5         6.700      6.70
   2      91.4      89.0        15.134     21.83
   3      91.0      89.8        14.444     36.28
   4      91.7      90.3        15.817     52.10
   5      84.7      89.5         5.989     58.08
   6      87.4      89.2         8.701     66.79
   7      75.8      88.2         1.751     68.54
   8      78.1      87.5         2.412     70.95
MIN. COMP. =  60 DB            MAX. COMP. = 106 DB
ARITHMETIC MEAN =  80 DB
STD. DEVIATION =  11 DB
VARIANCE =121 DB
```

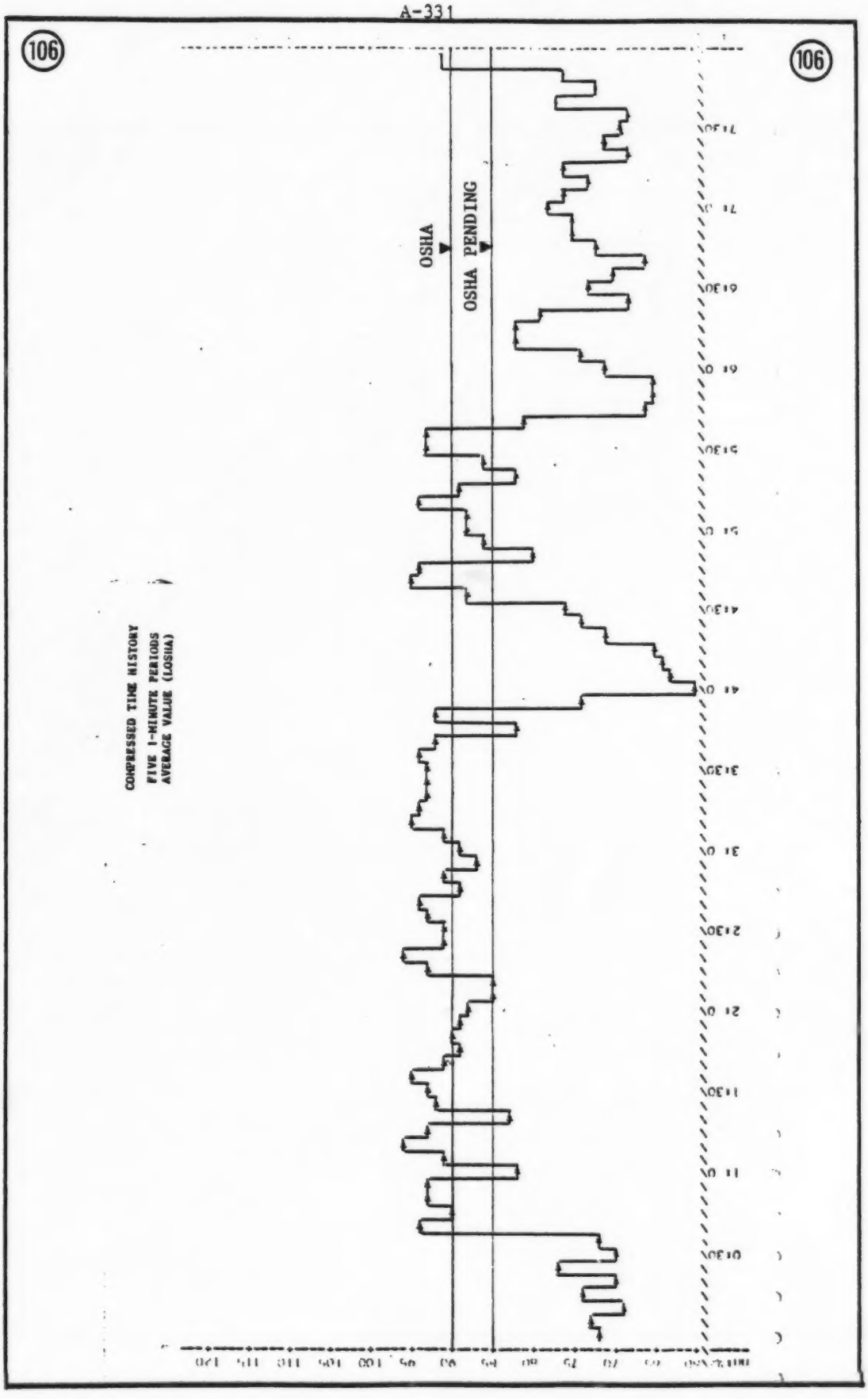
106

FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
46	9.6	60 TO 64
49	10.2	65 TO 69
70	14.6	70 TO 74
57	11.9	75 TO 79
45	9.4	80 TO 84
49	10.2	85 TO 89
121	25.2	90 TO 94
42	8.8	95 TO 99
0	0.0	100 TO 104
1	.2	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




106
106
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

107

PEAK TAPE [illegible]

1	26	80	1220	60	64	4	1								
	13		115200	480											
79	72	60	60	60	60	60	61	60	60	60	60	60	60	60	61
64	60	62	61	61	63	62	60	61	60	61	60	60	60	60	68
63	60	63	69	64	75	69	76	69	72	92	94	97	86	91	92
92	79	65	65	61	61	63	95	67	70	74	83	83	83	85	96
98	96	99	102	101	98	99	100	101	98	99	96	90	77	61	67
68	69	66	66	69	64	67	65	73	73	75	63	60	71	62	76
75	69	73	75	79	65	67	60	72	73	63	66	64	77	65	75
71	60	65	62	71	61	61	60	61	65	61	69	69	65	63	61
63	63	69	74	63	62	65	76	76	65	78	67	72	68	76	82
77	65	70	70	72	69	67	65	63	63	70	65	69	71	94	96
87	94	93	93	94	87	84	83	85	85	84	83	84	86	89	101
104	93	84	81	85	87	87	83	78	96	102	95	96	96	89	88
89	85	86	86	90	84	83	89	87	87	87	95	100	101	102	104
77	74	94	94	93	93	91	94	97	96	112	116	113	93	87	89
87	100	111	94	94	95	88	80	76	64	70	73	73	69	65	69
77	80	91	95	89	92	92	93	92	86	80	77	76	71	70	64
73	67	60	60	60	61	66	66	71	70	63	60	60	63	68	74
75	72	67	68	60	62	64	63	66	62	66	68	92	90	95	90
71	71	69	66	69	71	70	62	74	78	71	73	60	70	63	70
61	61	61	60	65	60	61	71	75	67	67	60	68	68	68	76
60	62	60	67	63	69	60	67	65	61	60	60	60	64	71	73
77	81	84	82	85	80	80	67	67	72	60	60	60	60	60	60
60	66	60	60	60	60	60	67	60	60	60	60	60	60	73	60
60	60	65	60	60	60	60	60	66	60	60	60	60	60	60	60
69	65	68	70	60	60	60	60	66	72	60	60	60	63	60	60
94	92	86	92	69	60	87	90	96	99	92	98	112	92	90	114
106	102	94	89	85	95	96	86	97	90	63	69	69	64	61	62
71	70	65	68	68	71	68	67	60	60	60	60	60	61	61	60
68	60	60	60	60	66	73	73	66	74	91	100	98	88	63	75
73	82	72	64	69	68	68	73	67	68	73	60	74	72	74	100

%EOF

ENTER LOG DATE (DD/MM/YR) : 12/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 9636

ENTER JOB CODE (3 CHARS) : SH80

DATA LOGGED :12 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1220
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 0: 0: 0

DATA ANALYZED : 12 SEPT 1979
SITE CODE : CC210
JOB CODE : SH
USER CODE : 9636
THRESHOLD : 80 DB
TOTAL SAMPLES = 115200
STANDBY TIME = 0: 0: 3

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

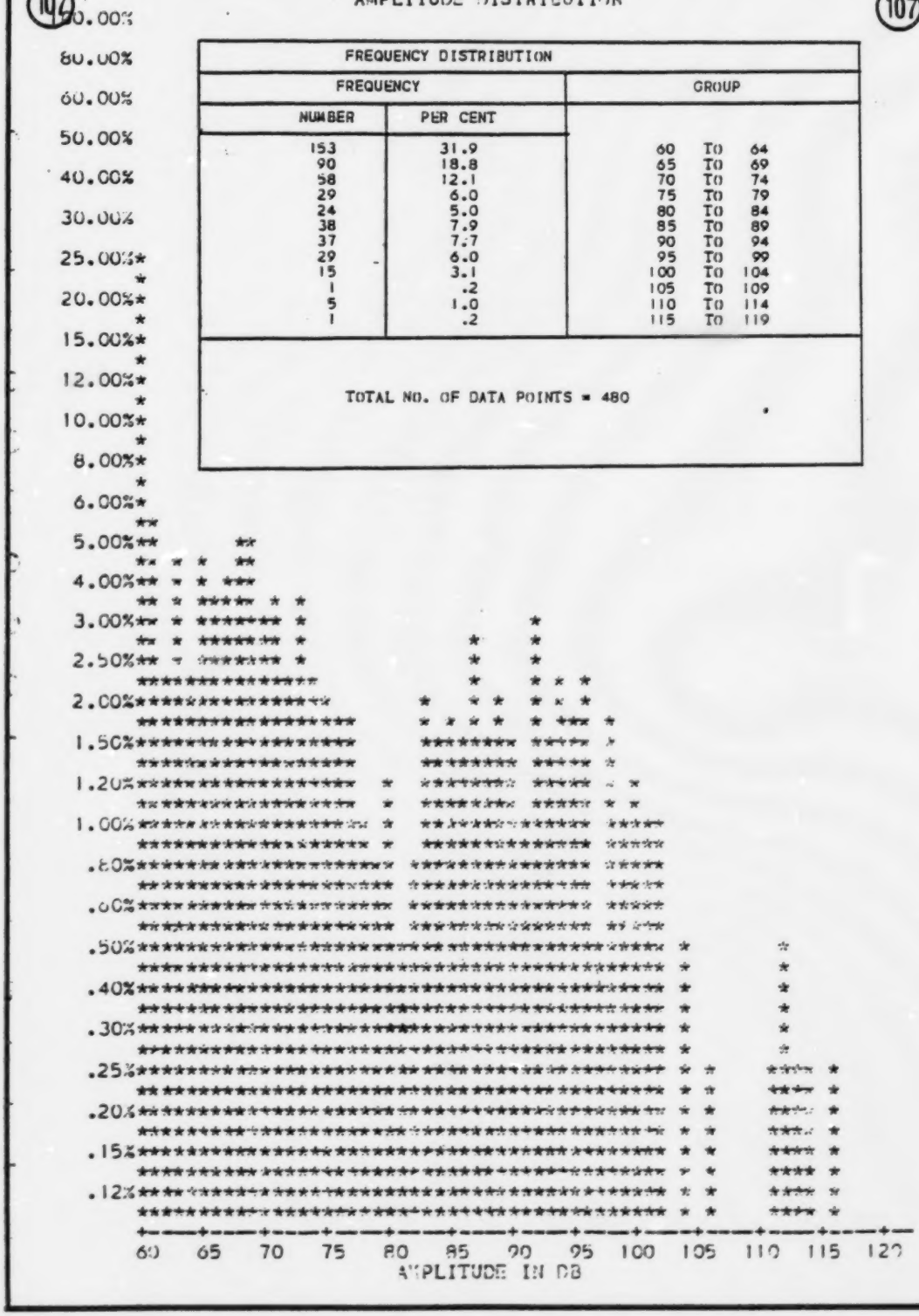
TIME	LOGMA		NOISE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	80.5	80.5	3.340	3.34
2	88.6	85.7	10.345	13.69
3	85.0	86.4	6.210	19.90
4	97.9	91.0	37.378	57.27
5	81.5	89.8	3.474	61.15
6	70.6	88.6	.847	162.00
7	92.6	89.4	17.986	79.98
8	83.6	88.8	6.125	85.11

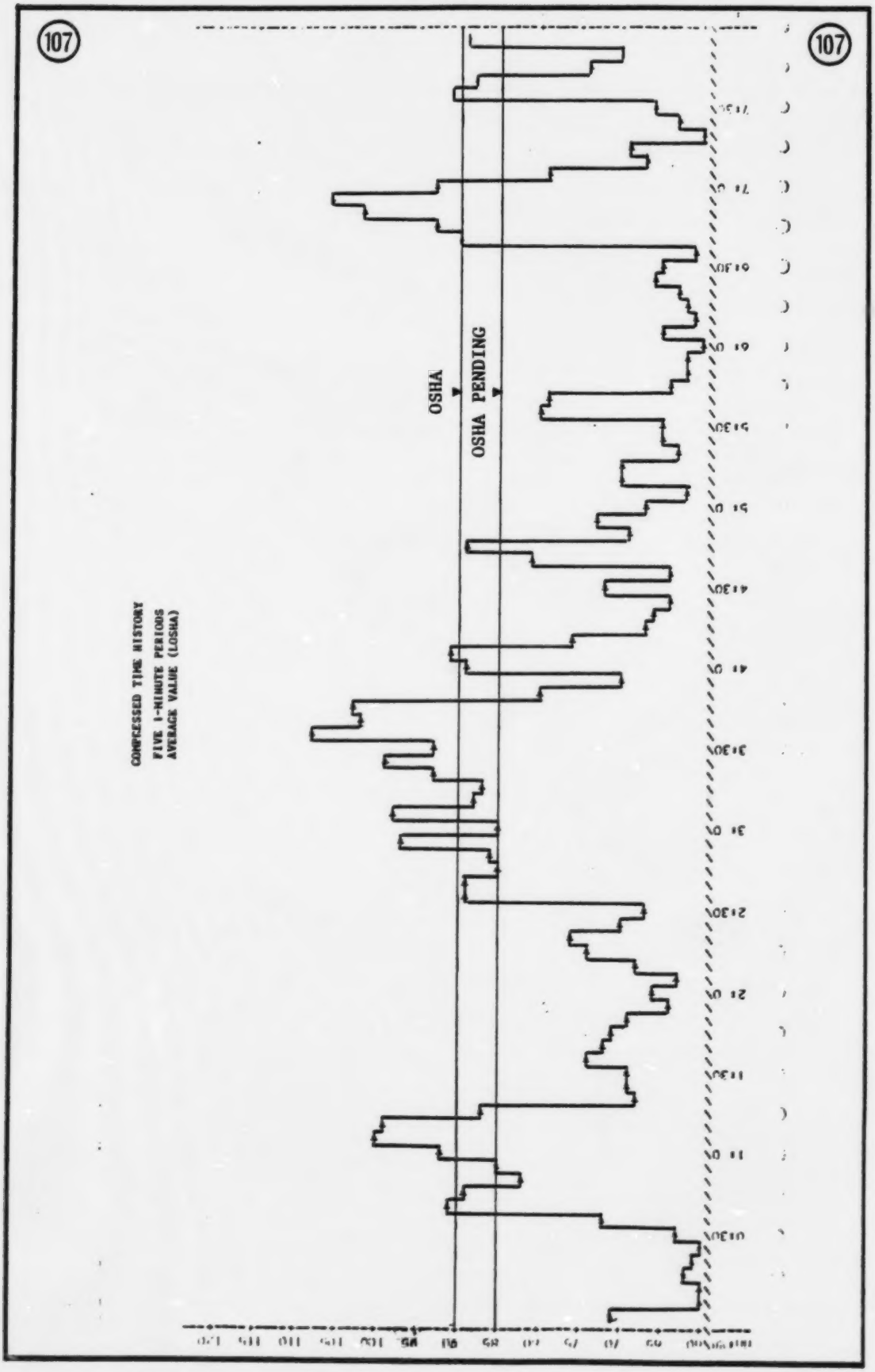
MIN. COMP. = 60 DB MAX. COMP. = 116 DB
ARITHMETIC MEAN = 74 DB
STD. DEVIATION = 14
VARIANCE 125

(107) AMPLITUDE DISTRIBUTION (107)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
153	31.9	60 To 64
90	18.8	65 To 69
58	12.1	70 To 74
29	6.0	75 To 79
24	5.0	80 To 84
38	7.9	85 To 89
37	7.7	90 To 94
29	6.0	95 To 99
15	3.1	100 To 104
1	.2	105 To 109
5	1.0	110 To 114
1	.2	115 To 119

TOTAL NO. OF DATA POINTS = 480




107
107
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)

108

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

1 26 80 1217 60 64 4 1

4765 115200 480

62	60	60	60	61	60	60	60	63	64	60	60	61	60	60	60
60	60	63	60	63	61	61	61	69	61	62	64	61	60	65	61
68	68	62	67	75	80	84	77	91	99	103	101	102	100	104	102
99	97	86	61	60	64	60	60	68	60	60	60	60	60	60	62
60	60	60	65	60	60	60	60	60	67	68	61	62	60	61	60
60	62	60	60	60	60	60	60	60	60	60	61	60	60	60	60
60	60	61	61	60	71	71	60	60	72	70	70	69	74	95	91
90	92	95	96	96	95	95	95	96	96	100	96	98	99	98	97
97	97	97	90	92	93	86	97	100	104	101	102	108	109	83	85
85	93	100	105	99	98	98	93	99	96	92	92	92	99	86	77
88	86	89	91	79	74	88	81	85	89	95	78	92	85	82	84
84	85	86	90	88	93	86	60	60	60	60	73	91	85	83	83
85	86	85	84	81	66	68	61	60	65	66	68	66	86	93	93
92	93	88	85	86	91	89	94	96	76	90	88	92	87	60	60
68	60	60	60	62	60	60	60	60	60	60	61	63	66	60	60
60	60	61	60	60	60	60	61	60	60	60	62	67	63	60	73
64	64	61	60	60	61	61	60	65	60	60	60	60	60	60	60
63	60	60	60	64	60	61	60	60	63	60	68	61	60	60	60
60	60	61	64	64	60	60	66	60	60	60	60	60	61	60	63
63	60	60	60	60	60	60	60	65	64	60	79	104	104	91	89
93	88	65	65	66	62	67	75	67	64	60	66	60	60	90	93
92	93	93	94	96	76	73	70	88	96	95	80	91	63	60	76
90	93	99	102	95	75	62	60	64	84	90	84	81	76	77	63
69	69	69	75	90	93	64	69	65	60	60	80	65	60	60	60
60	60	63	82	75	72	60	60	64	67	60	62	60	60	68	66
64	60	60	60	68	66	69	76	73	62	61	65	73	82	77	75
75	72	64	64	73	74	68	68	65	61	67	60	60	60	60	65
61	65	62	60	67	91	103	102	100	98	102	101	97	78	60	74
64	60	60	67	76	78	81	76	60	64	62	62	63	60	60	60
60	60	60	60	61	60	60	60	60	60	60	60	60	60	61	60

4EOF

ENTER LOG DATE (DD/MM/YR) : 16/07/79
ENTER SITE CODE (5 CHARS) : CC210
ENTER USER CODE (4 CHARS) : 9630

ENTER JOB CODE (3 CHARS) : SHBO

DATA LOGGED :16 JULY 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1217
BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE : 4/SEC
TEST DURATION = 8: 0: 0

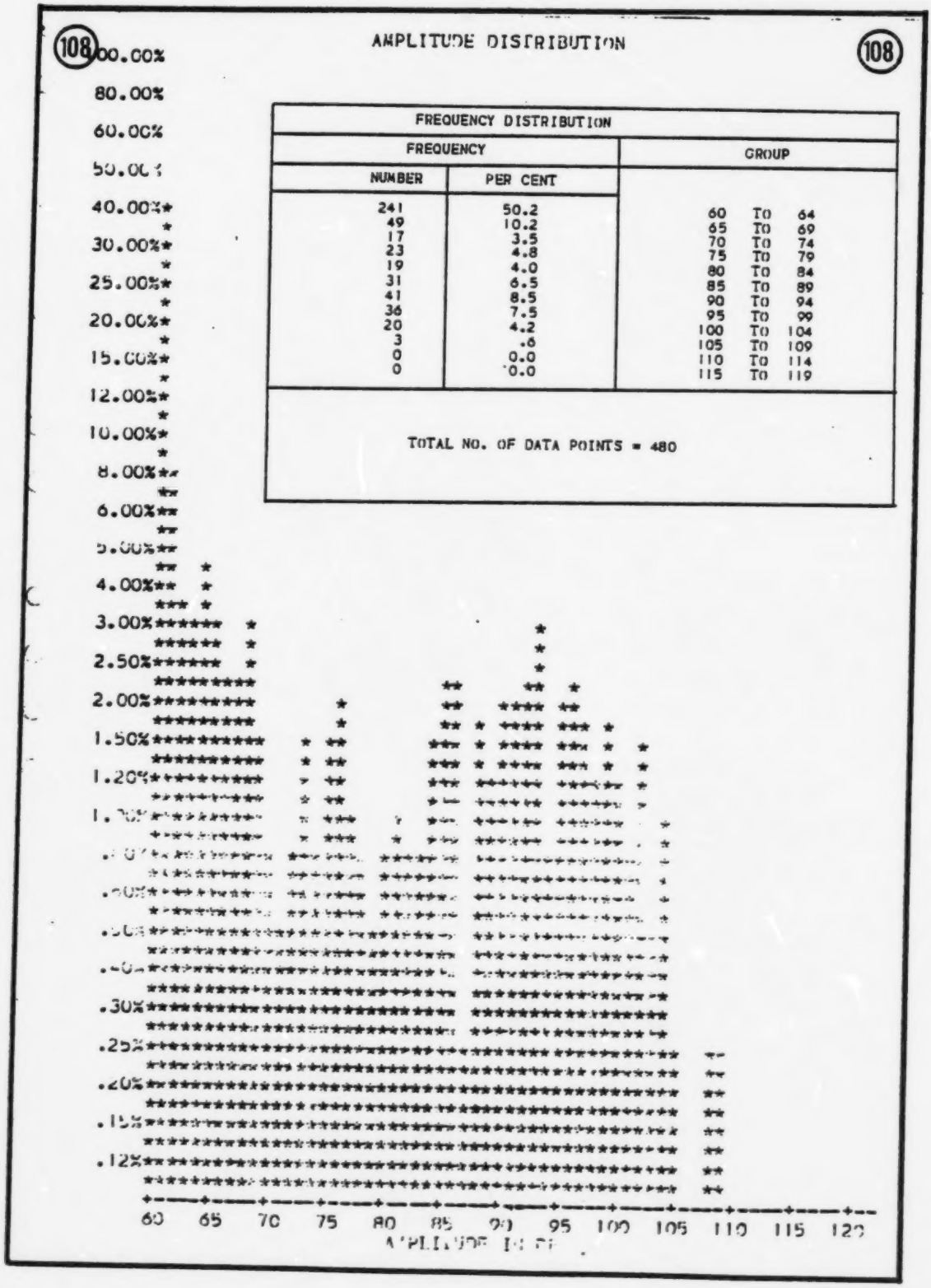
DATA ANALYZED : 13 SEPT 1979
SITE CODE : CC210
JOB CODE : SHB
USER CODE : 9630
THRESHOLD : [illegible]
TOTAL SAMPLES = 115200
STANDBY TIME = 0:19:51

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

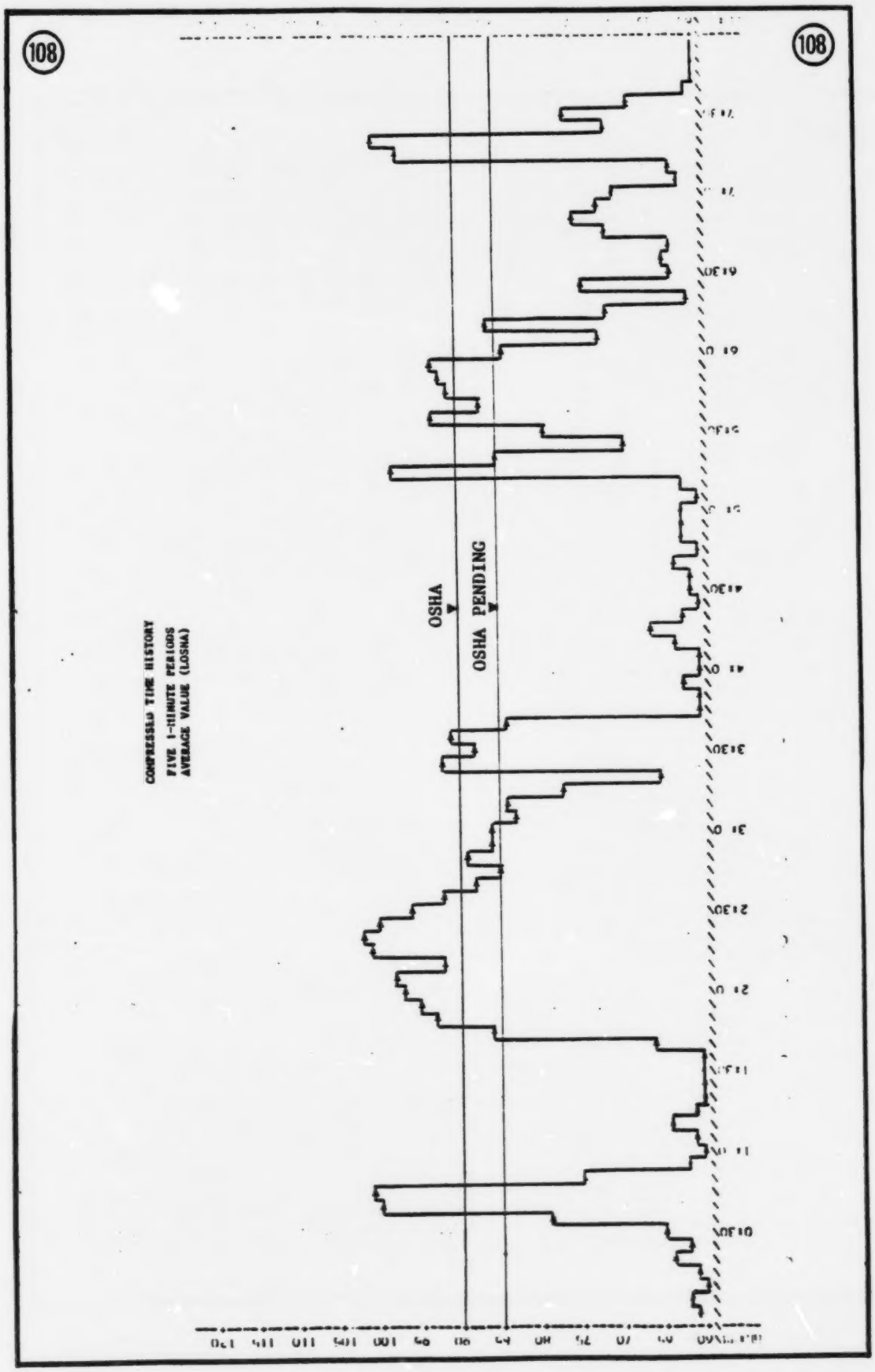
TIME	LOSHA		NDOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	88.0	88.0	9.473	9.47
2	82.7	85.8	4.541	14.01
3	96.0	91.0	28.797	42.81
4	84.1	89.8	5.528	48.34
5	61.9	88.2	.253	48.59
6	88.7	88.3	10.507	59.10
7	75.6	87.4	1.494	60.79
8	86.0	87.2	7.131	67.93

MIN. COMP. = 40 DB
MAX. COMP. = 109 DB
ARITHMETIC MEAN = 72 DB
STD. DEVIATION = 15 DB
VARIANCE =225 DB



FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
241	50.2	60 TO 64
49	10.2	65 TO 69
17	3.5	70 TO 74
23	4.8	75 TO 79
19	4.0	80 TO 84
31	6.5	85 TO 89
41	8.5	90 TO 94
36	7.5	95 TO 99
20	4.2	100 TO 104
3	.6	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


108
108
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

PLACE TAPE IN READER THEN TYPE A "SPACE" AND A "RETURN"

(109) (109)

1 26 80 1212 60 64 4 1
22902 114833 478

63	67	67	60	60	62	60	60	60	61	60	61	60	60	60	62
67	75	72	60	76	61	76	70	73	67	78	82	79	76	67	71
73	76	63	71	69	80	72	67	71	66	62	69	70	72	73	70
74	67	68	73	71	73	77	75	74	68	68	75	69	69	71	64
64	60	67	66	62	61	73	65	70	62	61	60	73	80	72	60
60	65	63	80	66	67	92	86	92	69	93	94	73	94	64	73
77	66	63	60	60	62	60	74	68	70	98	99	69	76	72	79
67	79	80	78	95	98	100	97	99	98	97	92	82	62	61	76
61	60	60	60	61	60	60	60	60	60	80	87	76	67	77	90
80	94	93	87	81	93	84	80	71	67	65	65	61	71	76	91
60	82	81	81	81	81	72	90	92	68	60	60	60	60	75	83
79	67	60	60	65	60	60	60	60	60	60	60	60	60	60	60
60	60	60	60	60	60	60	64	63	60	60	60	60	64	90	95
95	95	90	82	75	81	74	62	64	74	78	73	75	69	60	71
64	66	88	94	94	94	95	95	95	94	94	97	95	93	93	94
95	93	90	92	88	69	81	64	74	70	64	60	68	75	73	60
69	73	87	73	67	81	84	81	78	72	66	74	66	60	63	60
60	60	65	66	60	71	73	66	61	67	60	61	62	63	64	60
62	69	63	71	62	68	63	73	77	66	76	66	60	60	60	64
60	62	64	70	68	60	76	78	70	71	76	82	87	88	90	90
60	60	60	60	60	60	60	60	60	60	60	91	80	71	91	82
63	68	68	71	71	63	66	72	61	68	88	90	87	90	93	92
91	93	95	94	76	89	87	88	93	69	60	60	60	60	60	60
60	60	61	60	60	83	83	60	60	60	60	65	60	60	60	77
60	60	60	82	75	60	60	86	92	90	94	90	87	80	66	79
69	63	62	76	72	78	77	69	70	73	77	76	65	67	71	72
66	69	60	62	71	68	68	72	66	69	82	65	68	60	60	60
61	60	65	60	60	60	60	60	60	60	70	79	84	82	66	70
61	60	74	79	60	61	64	63	60	60	60	67	67	60	60	60
60	60	60	60	62	60	60	60	60	60	60	60	65	64	60	60

EOF

ENTER LOG DATE (DD/MM/YR) : 13/09/79
ENTER SITE CODE (5 CHARS) : 00307
ENTER USER CODE (4 CHARS) : 9508

ENTER JOB CODE (3 CHARS) : SHB

DATA LOGGED : 13 SEPT 1979
LOGGER : DB-301/26
SERIAL NUMBER : 1212
BASELINE : 60 DB
DATA ID CHAR : 64 (@)
SAMPLING RATE : 4/SEC
TEST DURATION = 7:58:12

DATA ANALYZED : 27 SEPT 1979
SITE CODE : 00307
JOB CODE : SHB
USER CODE : 9508
DIMENSION : 80
TOTAL SAMPLES = 114833
STARTING TIME = 1:45:12

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ALL DATA WITHIN 90 DB LIMITS
EQUATION = 90 DB + 10 LOG
CUMULATIVE (ENERGY) N.E.I. = 5.7
CUMULATIVE (AVERAGE) N.E.I. = 1.2
NUMBER OF COMPUTATIONS = 478
PERIOD = 1 MINUTES

TIME	LOGGED			
HOUR	SOUND LEVEL	CUMULATIVE	CUMULATIVE N.E.I.	N.E.I.
1	71.2	71.2	.914	.96
2	84.9	80.9	6.136	7.04
3	84.7	84.4	6.917	13.96
4	86.1	85.5	7.214	21.18
5	78.5	82.6	2.342	23.52
6	83.2	82.8	4.399	27.92
7	78.2	82.3	2.436	30.36
8	66.6	81.5	.623	30.98

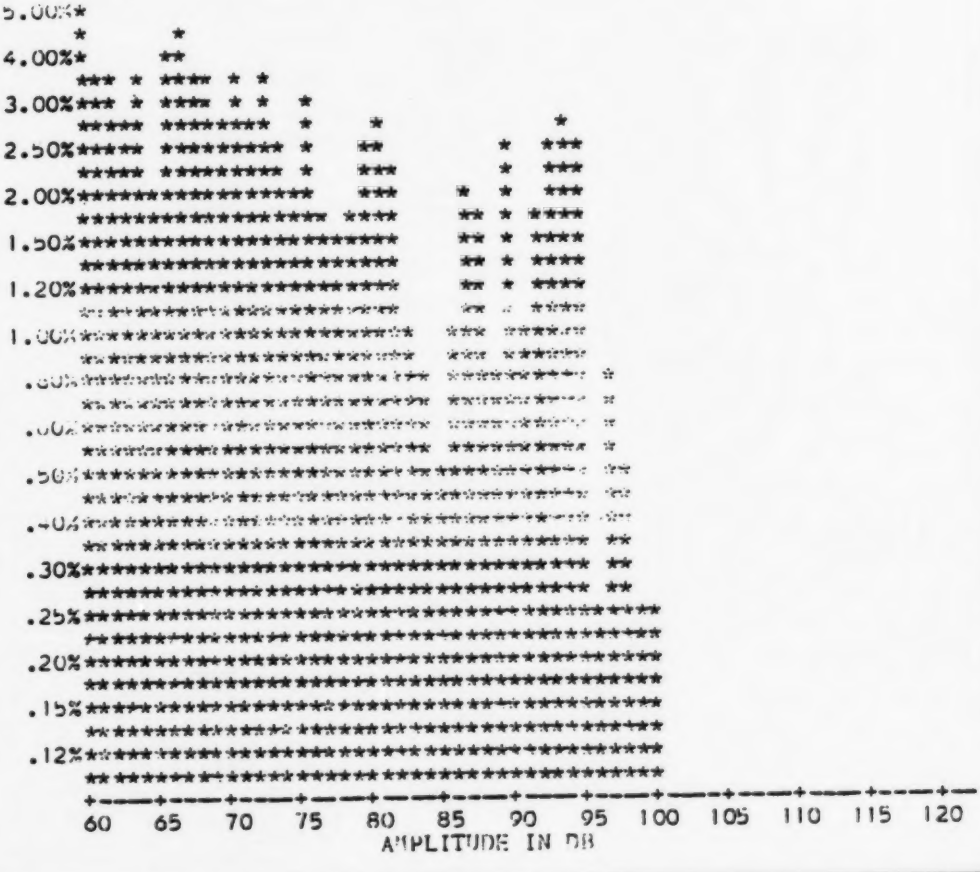
MIN. CUMUL. = 60 DB MAX. CUMUL. = 100 DB
ARITHMETIC MEAN = 71 DB
STD. DEVIATION = 12.70
VARIANCE =161 DB

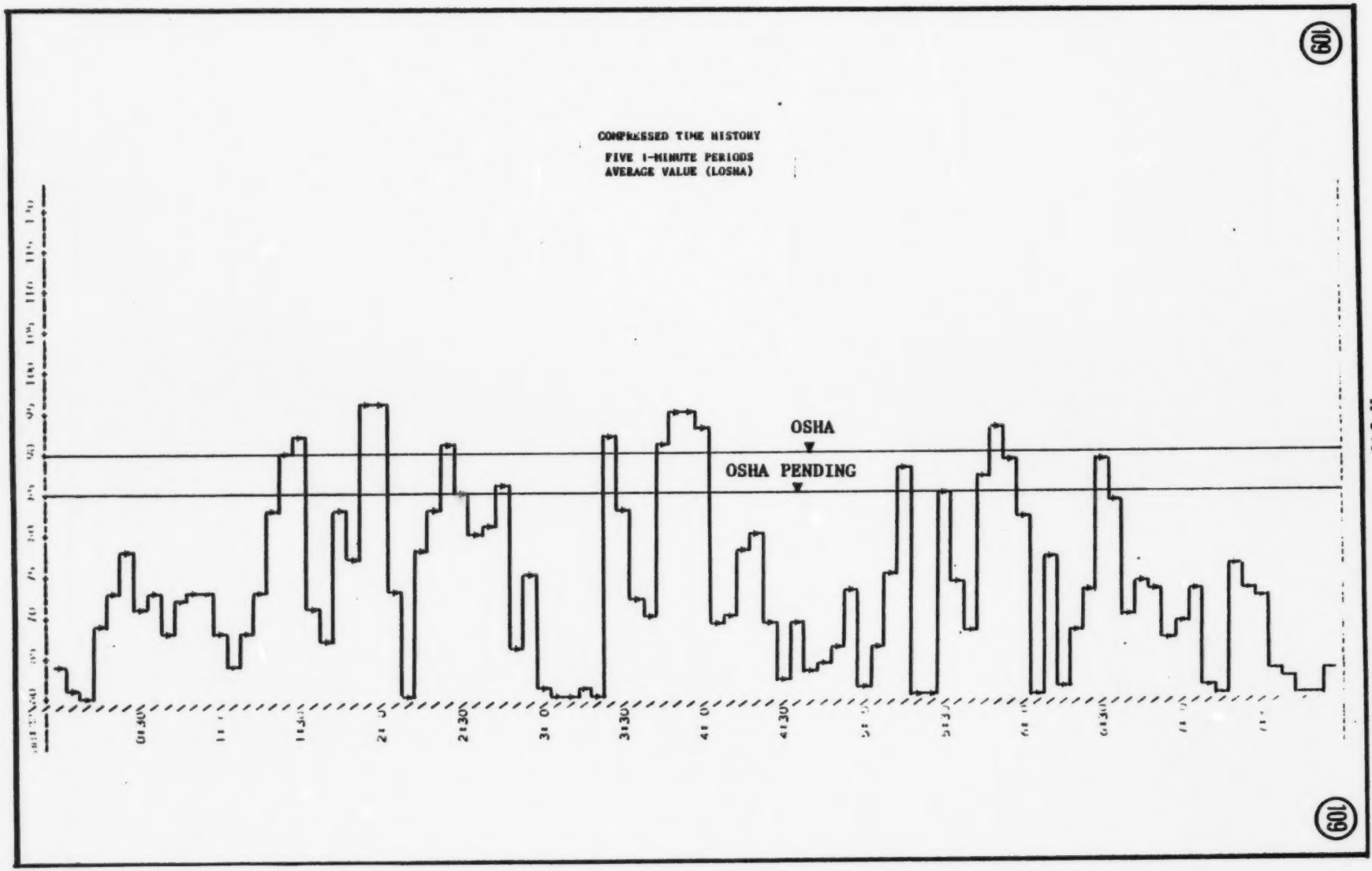
AMPLITUDE DISTRISUTION

(108) (109)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
186	40.3	60 TO 64
68	14.7	65 TO 69
58	12.6	70 TO 74
38	8.2	75 TO 79
34	7.4	80 TO 84
22	4.8	85 TO 89
38	8.2	90 TO 94
17	3.7	95 TO 99
1	.2	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480

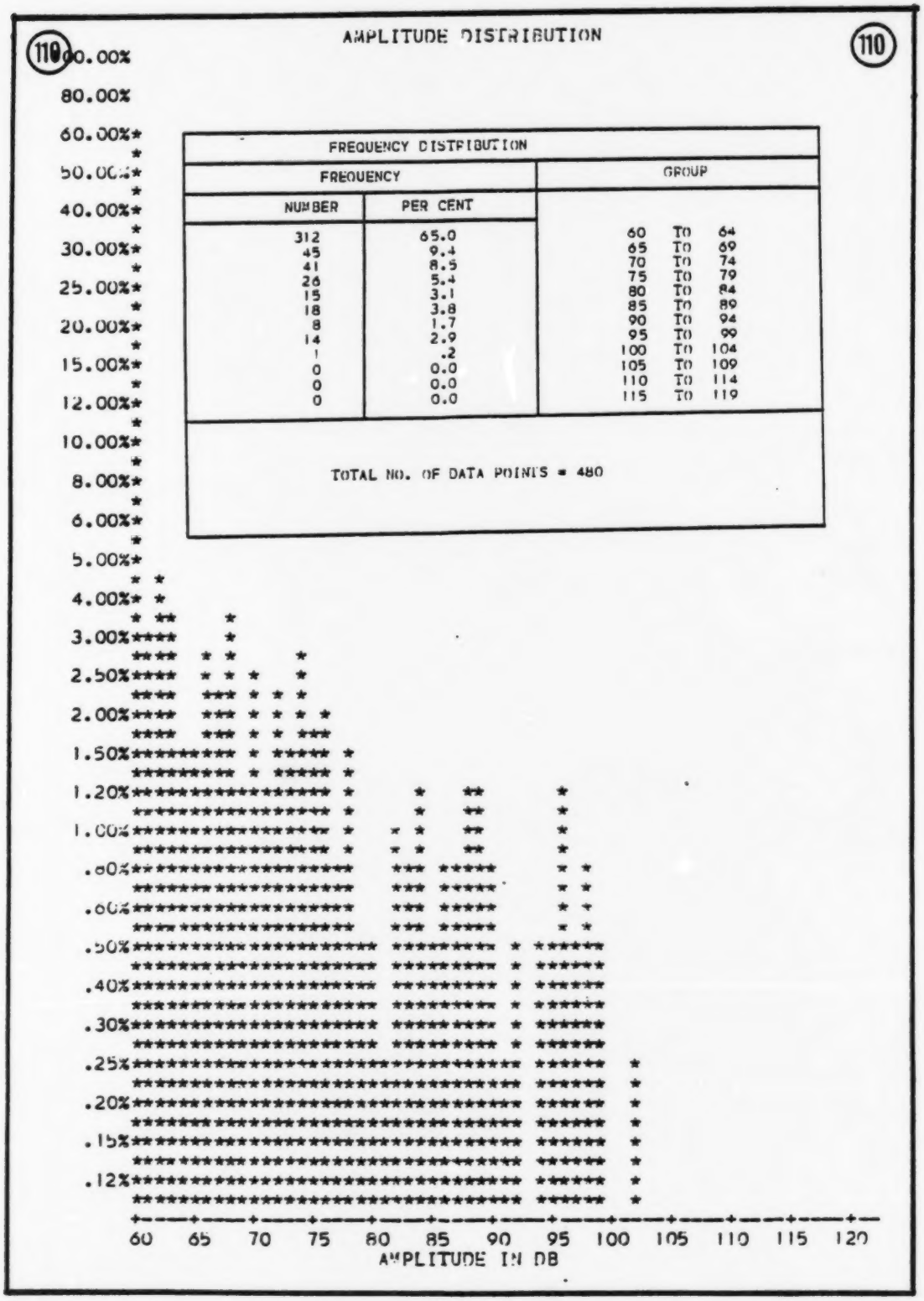



109
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
109

(110)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1221    60    64     4     1
     130      115200  480
  61  68  68  70  68  67  66  69  67  60  62  67  68  66  67  63
  63  60  67  62  63  62  60  60  60  60  61  63  60  67  91  88
  90  98  99 102  82  60  60  73  60  60  60  60  60  60  62  74
  66  60  60  60  60  56  60  60  60  71  74  65  69  75  77  80
  60  73  74  60  60  68  61  60  60  60  61  64  61  63  65  63
  72  60  67  94  77  76  71  71  63  73  70  66  75  74  62  72
  70  61  60  60  94  82  66  83  84  95  81  68  73  74  84  66
  71  60  60  78  82  60  60  73  83  87  89  88  88  66  74  69
  76  72  76  68  66  70  64  67  75  98  96  86  82  60  60  60
  60  60  70  60  60  65  60  60  60  60  60  60  60  60  60  60
  74  74  66  68  61  74  70  68  68  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  62  70  69  68  68  70  69  60  60  60  60  60  60  60  60  64
  60  74  70  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  72  60  60  60
  60  60  60  60  60  60  60  60  60  60  68  76  60  60  60  60
  61  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  61  60  60  60  66  72  78  62  61  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  72  60  60  63
  62  66  60  61  60  60  62  60  60  60  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  62  60  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  60  60. 61  60
  60  60  60  62  67  60  63  63  78  90  84  72  60  64  65  60
  60  60  60  60  60  60  60  60  60  60  60  60  62  89  79  88  89
  78  76  78  60  60  60  84  75  63  87  80  60  60  60  60  60
  60  60  60  60  60  60  60  60  60  60  60  60  85  60  60  75  92
  88  84  76  60  60  72  76  78  95  89  93  90  72  60  60  60
  60  71  77  65  79  60  62  60  62  60  60  60  68  65  62  63
  66  61  62  64  63  70  69  60  62  73  96  97  96  98  96  92
  99  96  95  97  87  75  66  74  75  60  64  60  63  80  62  76
%EOF


ENTER LOG DATE (DD/MM/YR) : 13/08/79
ENTER SITE CODE (5 CHARS) : 0030H
ENTER USER CODE (4 CHARS) : 9574
 ENTER JOB CODE (3 CHARS) : SHIB


   DATA LOGGED :13  AUG 1979          DATA ANALYZED : 21 SEPT 1979
        LOGGER : DB-301/26                SITE CODE : 0030H
 SERIAL NUMBER : 1221                      JOB CODE : SHIB
      BASELINE : 60 DB                   USER CODE : 9574
 DYNAMIC RANGE : 94 DB                  THRESHOLD : 60 DB
 SAMPLING RATE :  4/SEC            TOTAL SAMPLES =  115200
 TEST DURATION =   8 HR 0 MIN      STANDBY TIME =   0 HR 12


          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOGA                        SONE
HOUR     CURRENT   CUMULATIVE       CURRENT   CUMULATIVE
   1        80.6        80.8         3.474        3.47
   2        76.8        79.0         1.996        5.47
   3        79.0        79.0         2.715        8.19
   4        62.9        77.2          .291        8.48
   5        62.7        75.8          .285        8.76
   6        61.1        74.7          .229        8.99
   7        77.3        75.1         2.156       11.15
   8        65.4        77.5          .620       11.77
MIN. COMP. =  60 DB                MAX. COMP. = 102 DB
ARITHMETIC MEAN =  66 DB
STD. DEVIATION =  10 DB
VARIANCE =100 DB
```

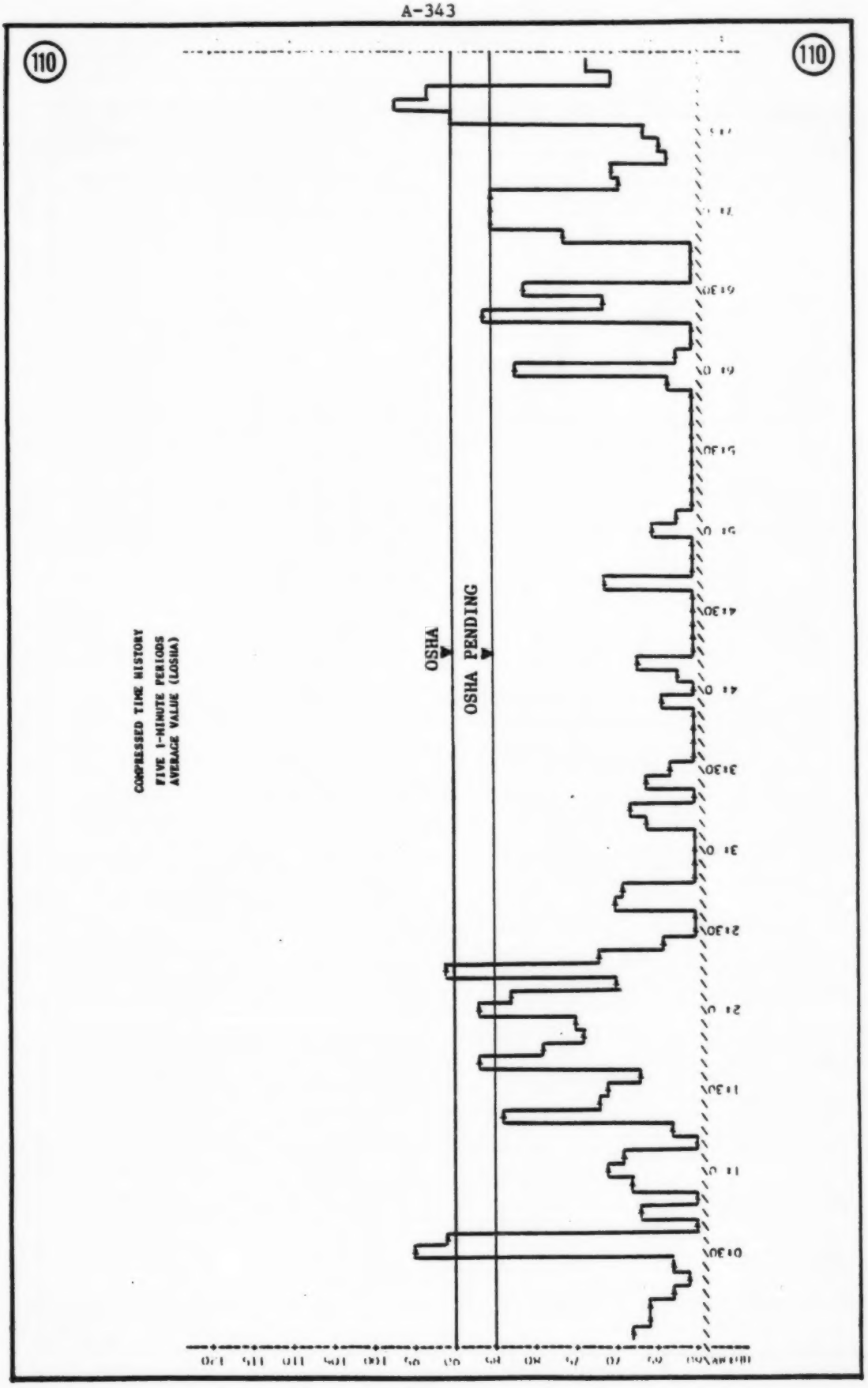
(110)



FREQUENCY DISTRIBUTION

FREQUENCY		GROUP
NUMBER	PER CENT	
312	65.0	60 TO 64
45	9.4	65 TO 69
41	8.5	70 TO 74
26	5.4	75 TO 79
15	3.1	80 TO 84
18	3.8	85 TO 89
8	1.7	90 TO 94
14	2.9	95 TO 99
1	.2	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480


110
110
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(111) (111)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1213   60   64    4    1
      59     115200  480
  60  60  60  60  60  60  60  60  60  60  60  61  60  60  60  60
  67  60  60  60  62  60  70  61  62  65  66  61  68  70  60  60
  60  64  70  71  70  64  61  60  60  60  68  67  64  71  61  60
  60  60  60  60  64  61  60  60  60  60  61  60  67  73  76  74
  71  71  77  75  70  67  70  70  77  75  63  70  68  70  78  60
  61  63  75  84  70  60  80  73  68  65  73  75  94  85  76  78
  76  90  88  82  84  72  61  73  82  83  90  89  92  92  60  61
  62  60  60  73  85  90  60  60  64  62  77  79  85  76  67  75
  88  78  74  78  80  78  82  74  83  81  84  92 100  98  91  74
  77  67  85  80  91  93  75  75  75  70  61  67  79  77  81  78
  88  82  79  79  89  60  65  60  60  60  60  60  70  85  74  71
  75  67  74  76  74  70  74  69  69  72  74  92  98  94  86  94
  86  93  88  86  88  69  65  77  80  60  60  81  83  61  77  80
  82  82  83  83  74  60  81  83  80  79  83  82  60  60  60  82
  83  82  82  82  82  83  83  83  83  82  83  83  79  60  60  75
  83  82  83  83  83  86  85  60  60  60  60  73  96  71  92  93
  94  80  64  71  63  77  85  85  85  64  72  64  75  84  83  82
  83  91  85  81  94  92  95  91  90  89  86  87  90  91  90  94
  85  62  60  63  62  62  63  62  61  69  79  70  62  60  60  60
  74  60  68  62  62  64  67  71  71  61  65  72  68  77  .73  61
  61  60  67  60  60  60  60  60  60  64  60  72  67  60  60  68
  61  60  66  67  64  64  71  69  65  66  60  64  74  64  67  62
  62  65  72  65  67  65  64  74  71  71  63  68  70  64  60  61
  60  60  75  64  60  60  60  63  64  60  60  60  63  60  60  61
  64  60  60  60  60  60  60  61  63  60  60  60  62  70  85  83
  86  84  86  85  90  86  88  86  85  83  84  79  85  63  70  62
  68  71  69  72  65  74  82  93  72  75  80  77  79  69  67  73
  74  61  60  60  62  63  67  76  74  72  76  73  73  70  72  65
  72  74  64  60  60  69  62  84  65  60  60  60  63  60  62  69
  66  74  76  80  63  63  60  61  60  60  60  60  60  60  60  60
%EOF


ENTER LOG DATE (DD/MM/YR) : 24/08/79

ENTER SITE CODE (5 CHARS) : 00000

ENTER USER CODE (4 CHARS) : 9590
 ENTER JOB CODE (3 CHARS) : SHI


   DATA LOGGED :24  AUG 1979          DATA ANALYZED : 25 SEPT 1979
        LOGGER : DB-301/26                  SITE CODE : 00000
SERIAL NUMBER : 1213                         JOB CODE : SHI
      BASELINE : 30 DB                       USER CODE : 9590
DYNAMIC RANGE : 54 DB                       THRESHOLD : [illegible]
SAMPLING RATE :  4/SEC                  TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0                STANDBY TIME =   [illegible]: 0:14

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = [illegible] DB / [illegible] DB
EXCHANGE (DOUBLING) RATE = [illegible] DB
THRESHOLD (CUTOFF) LEVEL = [illegible] DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME            LOGMA                          DOSE
HOUR     CURRENT  CUMULATIVE        CURRENT  CUMULATIVE
   1       63.2       63.2           .304        .30
   2       80.2       75.9          3.215       3.52
   3       83.0       79.1          4.726       [illegible]
   4       83.2       80.3          4.841      13.09
   5       85.2       81.6          6.455      19.54
   6       66.6       80.5           .487      20.03
   7       76.5       80.0          1.937      21.96
   8       73.1       79.5          1.204      23.17
MIN. COMP. =  60 DB                MAX. COMP. = 100 DB
ARITHMETIC MEAN =  71 DB
STD. DEVIATION =  11 DB
VARIANCE =121 DB
```

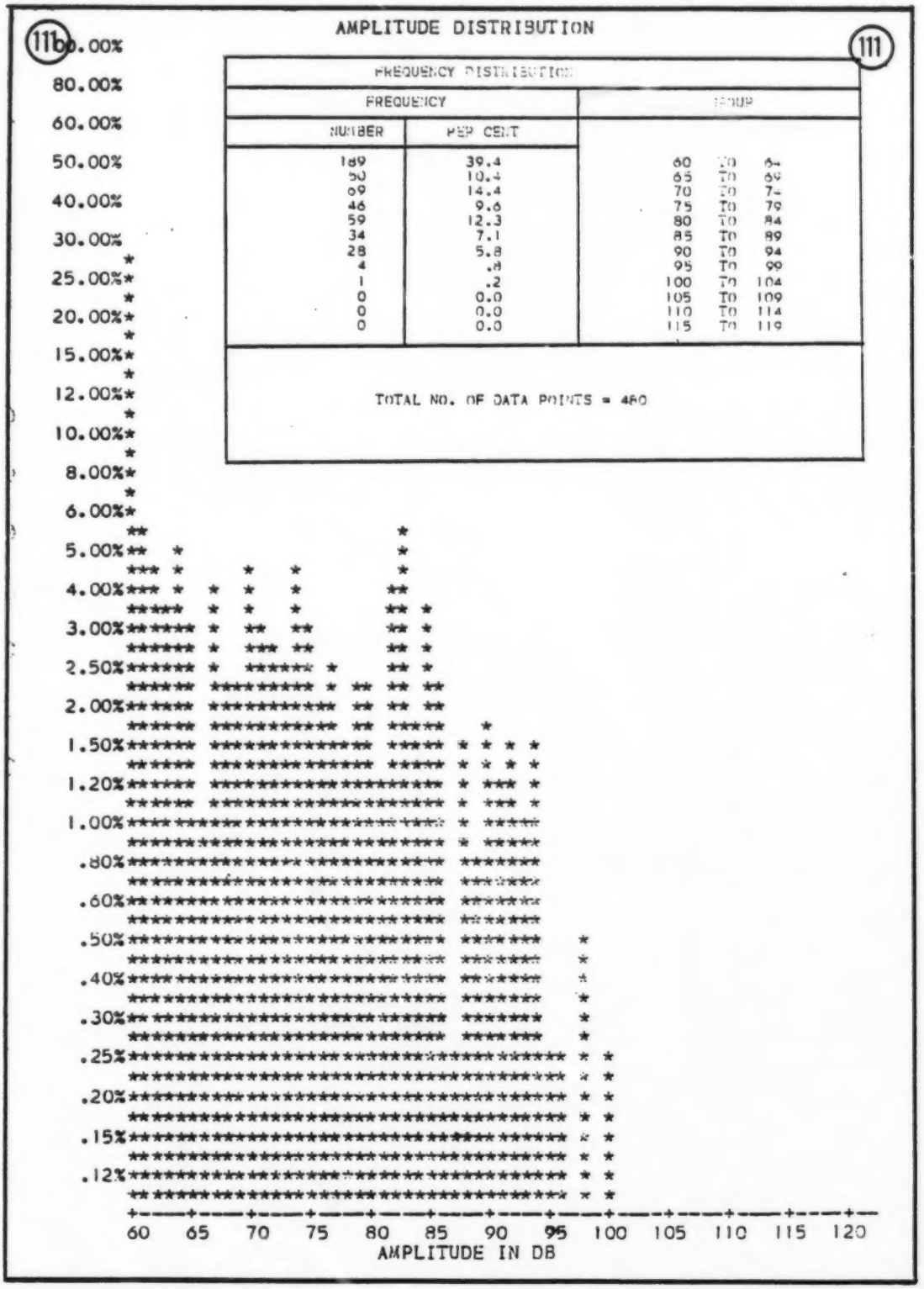
AMPLITUDE DISTRIBUTION

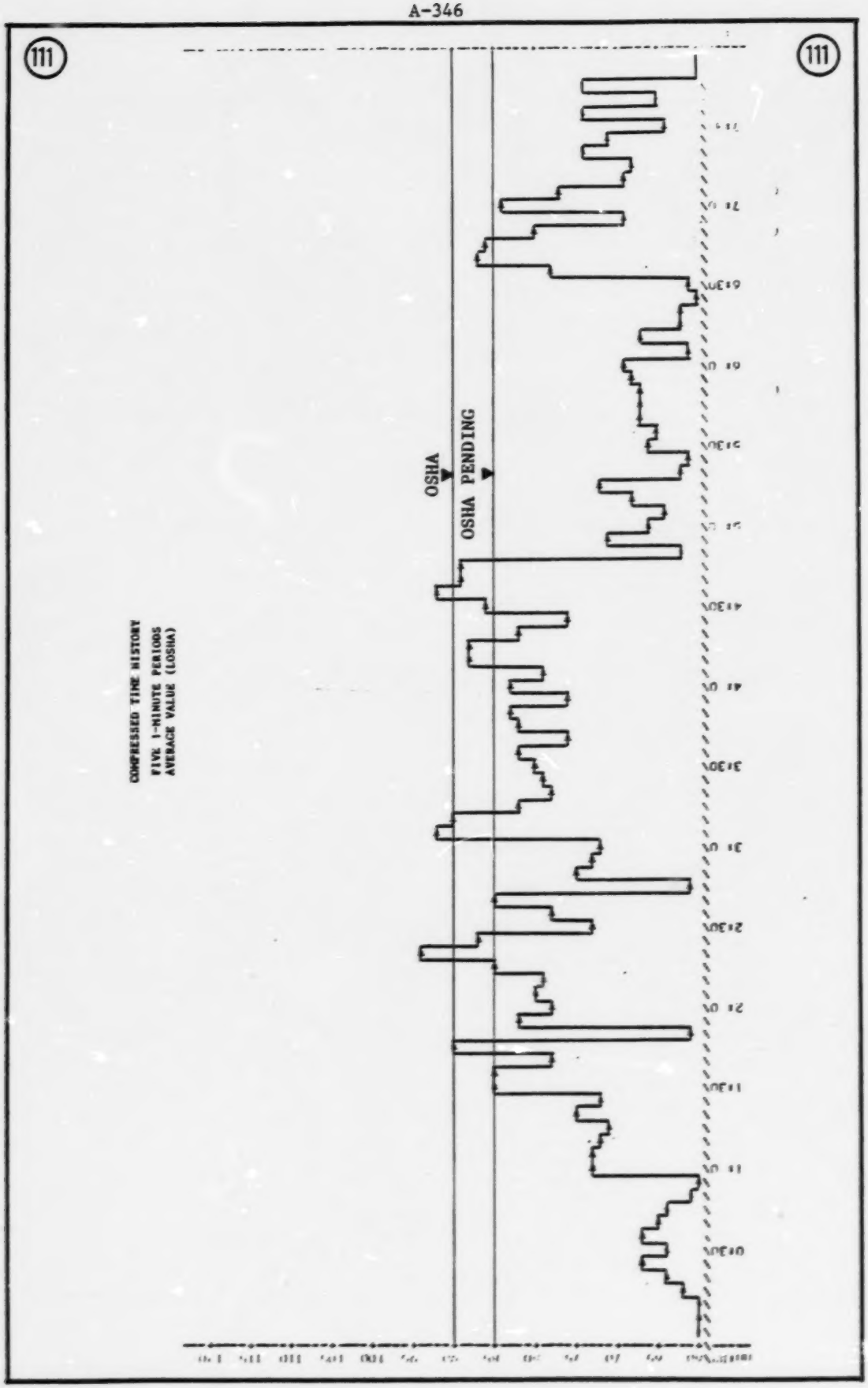
(111b)

(111)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
189	39.4	60 TO 64
50	10.4	65 TO 69
69	14.4	70 TO 74
46	9.6	75 TO 79
59	12.3	80 TO 84
34	7.1	85 TO 89
28	5.8	90 TO 94
4	.8	95 TO 99
1	.2	100 TO 104
0	0.0	105 TO 109
0	0.0	110 TO 114
0	0.0	115 TO 119

TOTAL NO. OF DATA POINTS = 480




111
111
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(112) (112)

PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'

```
  1  26  80  1220   60   64    4    1
     24     115200  480
 64  68  65  63  60  60  61  60  63  65  61  63  69  63  68  66
 73  62  62  60  60  61  65  60  60  61  60  60  60  60  60  60
 60  60  60  60  61  70  61  65  61  63  76  69  74  70  61  60
 84  60  60  60  75  91  95  85  85  86  87  76  81  83  74  86
 93  89  79  82  84  85  87  87  86  95  98  89  85  91  88  93
 89  93  94  88  93  90  89  90  92  88  88  89  89  88  90  89
 88  89  90  87  87  87  92  88  88  89  89  88  88  94  87  88
 88  87  89  87  89  89  88  88  91  89  87  88  88  89  89  90
 89  78  90  92  90  90  90  89  89  88  90  97  95  95  90  90
 95  94  95  93  95  92  92  92  96  96  93  92  88  90  89  92
 90  87  90  88  88  89  88  88  87  88  88  92  87  88  87  88
 90  87  88  91  91  85  77  79  80  78  77  81  83  82  72  81
 80  79  79  82  82  97  90  88  89  88  90  89  89  88  87  88
 86  88  90  90  91  87  87  88  90  88  87  87  87  87  87  87
 88  86  87  87  87  90  70  77  82  85  87  74  67  79  82  91
 98  89  87  87  87  87  87  87  87  88  93  91  90  75  77  80
 80  88  75  61  68  64  71  62  60  77  73  72  71  77  60  60
 60  64  60  62  60  60  60  60  63  60  60  60  60  60  60  60
 60  60  60  61  62  60  62  76  82  69  75  62  60  72  69  69
 73  68  78  74  71  60  60  81  80  60  75  78  84  90  90  89
 94  91  94  91  93  92  88  89  90  90  87  87  86  87  87  86
 88  87  86  87  87  87  87  87  87  86  87  87  89  87  98  88
 75  71  71  69  75  85  76  88 100  91  90  88  89  92  89  89
 90  90  89  89  89  90  87  88  87  88  89  88  88  88  92  86
 90  89  95  95  94  87  89  88  89  88  87  92  93  91  93  90
 89  89  89  90  93  92  90  90  90  91  92  92  92  88  86  87
 88  88  87  88  88  88  88  87  89  81  87  88  73  66  68  72
 73  81  69  68  69  68  75  73  73  74  77  73  73  73  68  75
 80  72  72  74  70  62  65  71  67  66  77  61  66  74  61  64
 66  69  82  61  70  65  60  60  60  60  60  60  60  60  60  60
%EOF
```

```
ENTER LOG DATE (DD/MM/YR) : 26/07/79
ENTER SITE CODE (5 CHARS) : 2SHAF

ENTER USER CODE (4 CHARS) : 9638
 ENTER JOB CODE (3 CHARS) : SHF
```

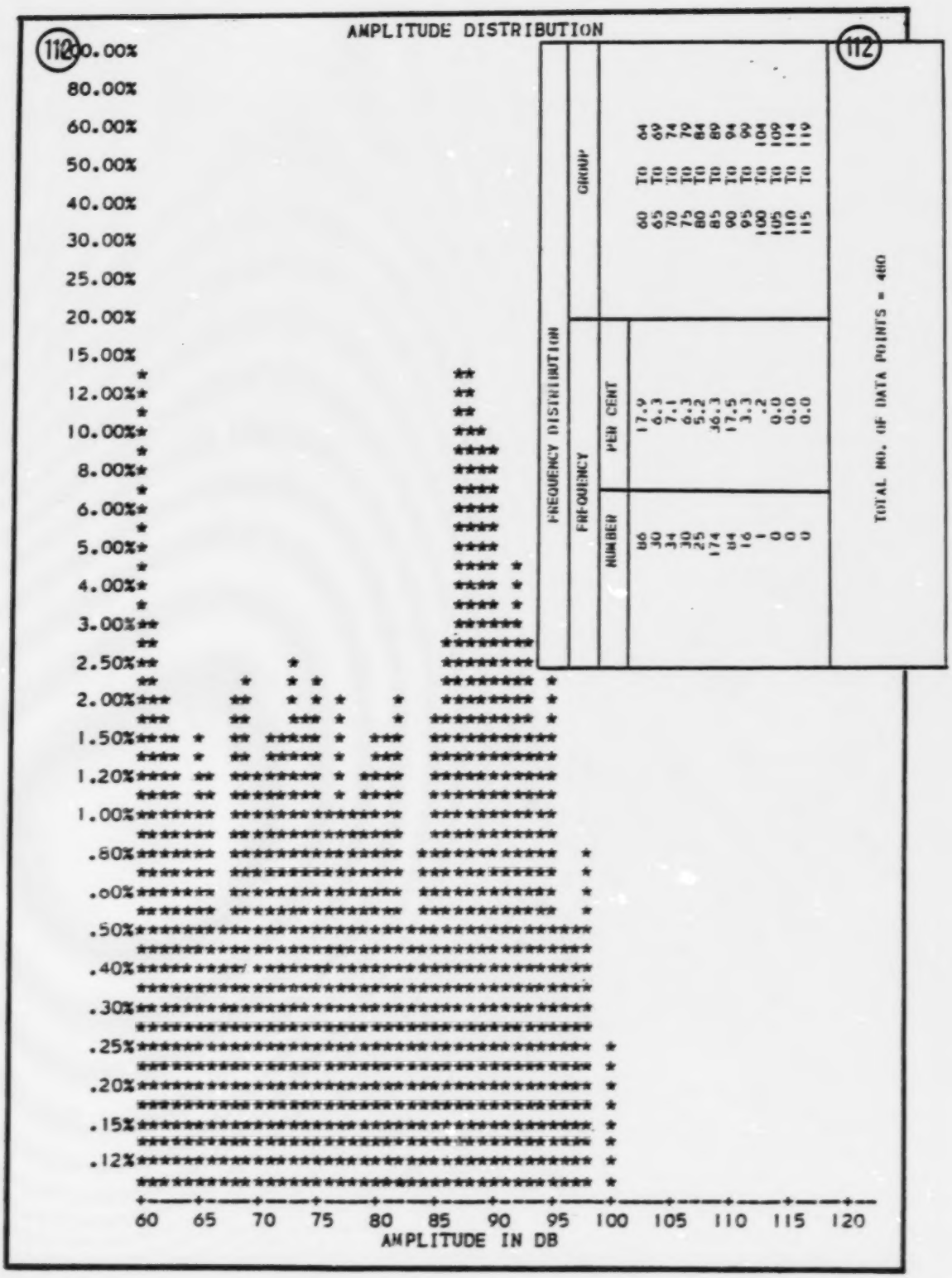
```
   DATA LOGGED :26 JULY 1979
        LOGGER : DB-301/26
SERIAL NUMBER : 1220
     BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE :  4/SEC
TEST DURATION =   8: 0: 0

DATA ANALYZED : 19 SEPT 1979
     SITE CODE : 2SHAF
      JOB CODE : SHF
     USER CODE : 9638
     THRESHOLD :  80 DB
TOTAL SAMPLES =  115200
 STANDBY TIME =   0: 0: 6
```

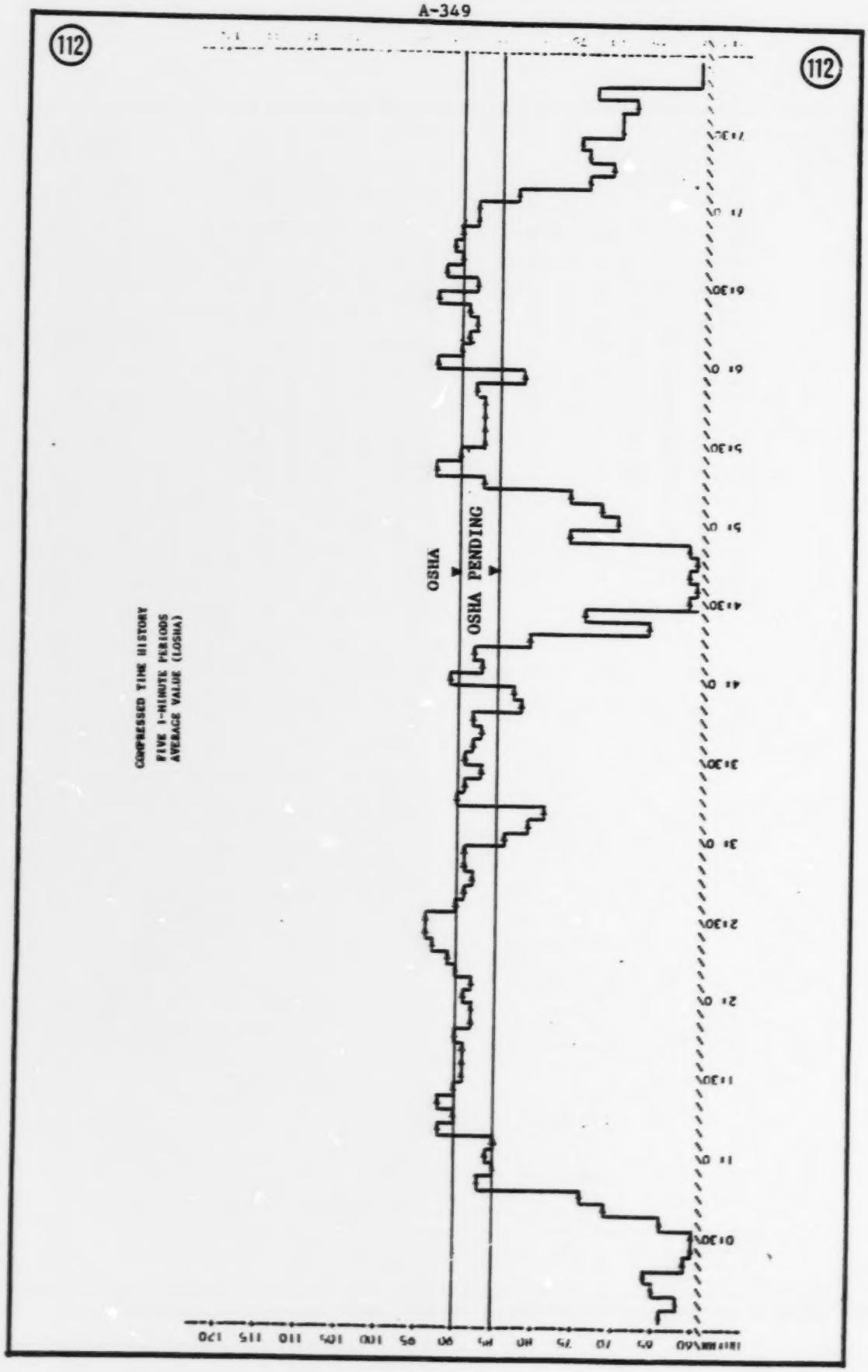
TIME HISTORY ANALYSIS

```
NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES
```

TIME	LOSHA		%DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	75.1	75.1	1.580	1.58
2	89.2	85.1	11.141	12.72
3	90.7	87.5	13.855	26.58
4	86.4	87.3	7.591	34.17
5	80.7	86.3	3.437	37.60
6	86.3	86.3	7.493	45.10
7	90.3	87.0	13.019	58.12
8	76.5	86.3	1.927	60.04

```
MIN. COMP. =  60 DB          MAX. COMP. = 100 DB
ARITHMETIC MEAN =  80 DB
STD. DEVIATION =  12 DB
VARIANCE =144 DB
```


AMPLITUDE DISTRIBUTION
112
112
FREQUENCY DISTRIBUTION
GROUP
FREQUENCY
NUMBER
PER CENT
60 TO 64 17.9 86
65 TO 69 6.3 30
70 TO 74 7.1 34
75 TO 79 6.3 30
80 TO 84 5.2 25
85 TO 89 36.3 174
90 TO 94 17.5 84
95 TO 99 3.3 16
100 TO 104 .2 1
105 TO 109 0.0 0
110 TO 114 0.0 0
115 TO 119 0.0 0
TOTAL NO. OF DATA POINTS = 480
80.00%
60.00%
50.00%
40.00%
30.00%
25.00%
20.00%
15.00%
12.00%
10.00%
8.00%
6.00%
5.00%
4.00%
3.00%
2.50%
2.00%
1.50%
1.20%
1.00%
.80%
.60%
.50%
.40%
.30%
.25%
.20%
.15%
.12%
60 65 70 75 80 85 90 95 100 105 110 115 120
AMPLITUDE IN DB


112
112
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING
0:30
1:0
1:30
2:0
2:30
3:0
3:30
4:0
4:30
5:0
5:30
6:0
6:30
7:0
7:30
120
115
110
105
100
95
90
85
80
75
70
65
60

(113)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1213    60    64     4     1
     619     115200   480
 60  67  60  62  60  64  62  65  60  65  66  74  70  65  60  61
 62  67  62  67  74  65  72  66  64  69  66  71  75  65  67  62
 67  62  60  64  68  60  75  73  68  70  73  64  81  86  90  90
 90  93  91  89  94 100  99 100  92 100 103 101  99  99  99  97
 95 100  95  96  94  98  98  96  78  61  60  60  60  60  61  60
 60  60  60  60  60  61  60  60  60  63  60  60  60  60  60  67
 66  60  60  60  60  69  92  98  92  95  98  95  91  62  66  68
 62  69  76  82  85  91  96  95  98  99  97  77  65  84  85  86
 85  74  67  66  69  78  63  60  68  81  80  92  94  97  92  86
 97  93  82  84  93  97  95 102 104  94  98  96  97  94  78  93
 94  96  95  73  83  95  98  89  87  96  97  96  94  96  85  85
 84  83  84  82  82  82  82  82  82  82  82  82  84  82  82  83
 84  84  89  94 100  76  75  68  96  93  97  97  98  94  84  94
 93  98  86  90  93  94  94  96  95  89  80  60  60  60  60  67
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  61  63  60  60  60  60  60  60  60  74  95  93
 81  81  82  97  98  98  85  83  84  85  92 101  71  73  72  76
 90  94  97  99  98  96  77  85  86  82  95  96  89  76  87  91
 87  85  88  85  86  81  95  97 100 100 100  89  91  91  92  87
 94  89  96  70  72  86  97  88  93  96  94  97  97  97  98  95
 93  93  99  98  93  92  93 101 100 102  98  94  90  60  60  62
 60  60  83  60  60  60  60  60  60  60  60  60  60  60  63  84
 83  83  83  82  60  60  60  60  60  60  80  67  60  60  60  79
 77  78  74  74  79  68  60  60  60  60  60  60  60  60  60  60
 60  66  60  60  63  60  60  60  60  60  60  60  60  60  60  60
 60  60  63  60  60  60  60  60  60  60  67  60  63  61  80  92
 94  96  93  95  93  88  93 100  98  97  97  93  96  80  64  60
%EOF
```

(113)

```
ENTER LOG DATE (DD/MM/YR) : 27/07/79

ENTER SITE CODE (5 CHARS) : 205LL
ENTER USER CODE (4 CHARS) : 9637
 ENTER JOB CODE (3 CHARS) : FOR
```

```
   DATA LOGGED :27 JULY 1979
        LOGGER : DB-301/26
SERIAL NUMBER : 1213
      BASELINE : 60 DB
DYNAMIC RANGE : 64 DB
SAMPLING RATE :  4/SEC
TEST DURATION =   8: 0: 0

DATA ANALYZED : 20 SEPT 1979
    SITE CODE : 205LL
     JOB CODE : FOR
    USER CODE : 9637
    THRESHOLD :  60 DB
TOTAL SAMPLES = 115200
 STANDBY TIME =   0: 2:34
```

TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 60 DB
NUMBER OF COMPUTATIONS = 480
PERIOD = 1 MINUTES

TIME	LEQ(A)		DOSE	
HOUR	CURRENT	CUMULATIVE	CURRENT	CUMULATIVE
1	87.2	87.2	8.474	8.47
2	89.6	88.5	11.828	20.30
3	92.4	90.1	17.473	37.78
4	88.0	89.6	9.423	47.20
5	60.1	88.0	.198	47.40
6	91.9	88.8	16.192	63.59
7	89.5	88.9	11.630	75.22
8	85.1	88.5	6.311	81.53

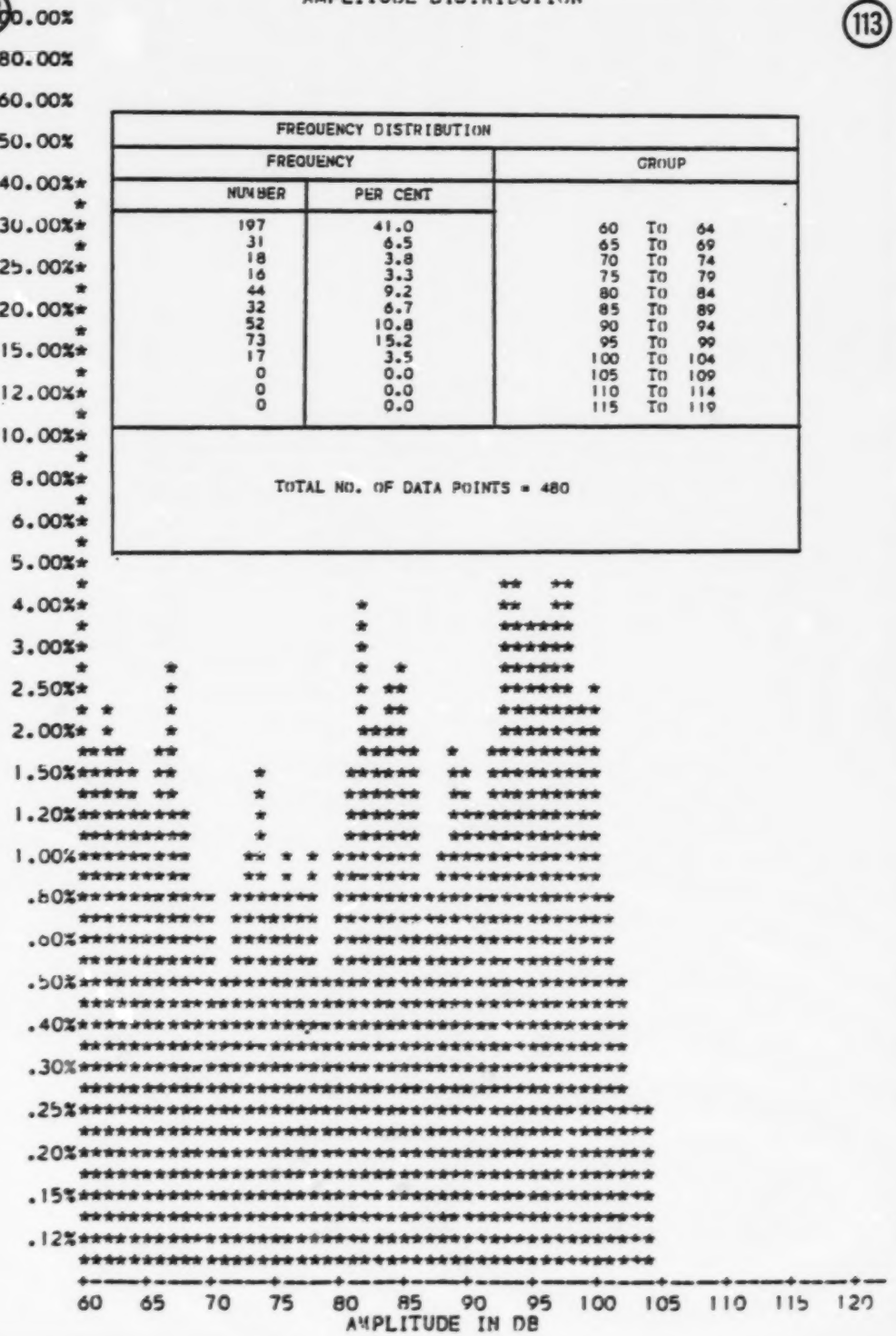
MIN. COMP. = 60 DB MAX. COMP. = 104 DB
ARITHMETIC MEAN = 76 DB
STD. DEVIATION = 15 DB
VARIANCE =225 DB

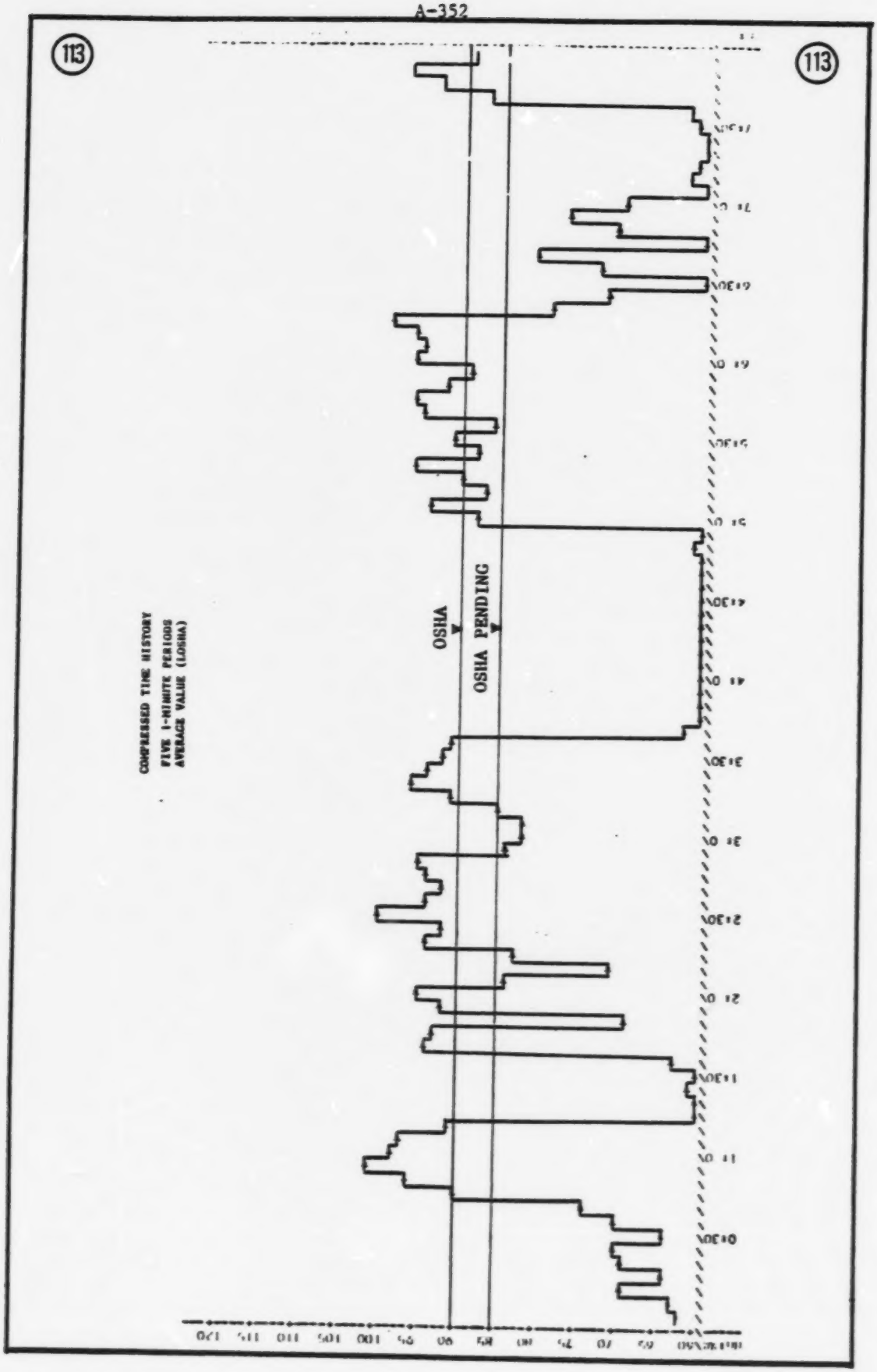
AMPLITUDE DISTRIBUTION

(113) (113)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
197	41.0	60 To 64
31	6.5	65 To 69
18	3.8	70 To 74
16	3.3	75 To 79
44	9.2	80 To 84
32	6.7	85 To 89
52	10.8	90 To 94
73	15.2	95 To 99
17	3.5	100 To 104
0	0.0	105 To 109
0	0.0	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




113
113
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VALUE (LOSHA)
OSHA
OSHA PENDING

(114)

```
PLACE TAPE IN READER THEN TYPE A 'SPACE' AND A 'RETURN'
  1  26  80  1216   60   64    4    1
    122     115200  480
 68  61  60  60  61  65  64  61  62  60  60  60  62  64  70  60
 60  62  67  66  67  76  68  89  84  93  94  96  97 100  96 101
 87  95 100  96  97 101  90  95 100  99  97  99  91  88  96  99
 95  98  92  64  60  60  63  64  60  60  62  60  60  60  78  60
 60  74  85  89  80  60  60  60  67  69  84  87  90  97  93  95
 95 101  87  72  61  61  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  60  60  79
 60  60  60  60  60  88  90  73  71  73  74  77  72  77  93  90
 86  81  84  81  80  80  78  68  74  60  60  62  60  60  66  82
 75  72  83  79  60  60  60  60  60  60  60  87  91  78  68  78
 60  60  60  60  60  60  60  60  68  69  60  60  65  60  86  91
 87  81  90  89  92  86  93  93  90  90  97  89  89  88  88  88
 88  90  89  90  91  80  78  75  70  66  62  60  64  60  70  71
 66  70  72  67  65  72  76  80  79  83  86  81  93  89  88  86
 91  98  70  67  62  69  70  68  75  73  74  75  60  66  61  64
 60  66  62  60  60  65  78  78  69  69  69  63  69  70  60  60
 60  77  60  60  60  61  68  60  68  63  60  63  60  60  61  60
 60  60  67  63  60  60  61  71  60  60  60  75  61  60  64  71
 65  60  60  61  68  68  60  65  60  68  61  68  78  69  62  69
 66  61  68  72  81  62  60  64  62  60  68  63  65  64  65  64
 66  63  67  70  71  69  69  63  64  65  61  67  64  63  69  64
 64  67  66  60  62  67  75  71  62  64  67  76  79  62  75  75
 83  92  86  93  92  77  74  87  90  87  93  88  91  91  97  90
 89  79  81  80  86  88  85  62  60  60  60  60  60  60  60  60
 60  60  60  60  60  60  60  60  60  60  60  60  60  62  60  79
 88  94  92  88  80  73  87  96 109 108 104 101  93  93  92  88
 63  74  76  80  81  80  85  82  84  87  93  88  90  91  92  84
 73  64  60  63  60  60  60  61  60  62  63  60  60  66  66  60
 68  60  80  79  93  87  88  91  98  97  92  97  94  97  97  92
*EOF

ENTER LOG DATE (DD/MM/YR) : 30/07/79
ENTER SITE CODE (5 CHARS) : 00448
ENTER USER CODE (4 CHARS) : 9614
 ENTER JOB CODE (3 CHARS) : FOR

    DATA LOGGED :30 JULY 1979          DATA ANALYZED : 20 SEPT 1979
         LOGGER : DB-301/26                 SITE CODE : 00448
SERIAL NUMBER : 1216                        JOB CODE : F09
       BASELINE : 60 DB                    USER CODE : 9614
DYNAMIC RANGE : 64 DB                      THRESHOLD : 80 DB
SAMPLING RATE :  4/SEC                TOTAL SAMPLES =  115200
TEST DURATION =   8: 0: 0              STANDBY TIME =   0: 0:30

          TIME HISTORY ANALYSIS

NOISE EXPOSURE INDEX (N.E.I.) CALCULATIONS
ARE BASED ON THE FOLLOWING:
100% DOSE = 90 DB / 8 HRS
EXCHANGE (DOUBLING) RATE = 5 DB
THRESHOLD (CUTOFF) LEVEL = 80 DB
  NUMBER OF COMPUTATIONS = 480
PERIOD =  1 MINUTES

TIME          LOSHA                    DOSE
HOUR     CURRENT  CUMULATIVE     CURRENT  CUMULATIVE
   1        91.0       91.0      14.342      14.34
   2        81.4       87.7       3.808      18.15
   3        79.1       85.8       2.767      20.92
   4        84.9       85.6       6.121      27.04
   5        74.2       84.3       1.404      28.44
   6        67.2       83.1        .533      28.97
   7        83.8       83.2       5.264      34.24
   8        91.8       85.0      16.050      50.29
MIN. COMP. =  60 DB              MAX. COMP. = 109 DB
ARITHMETIC MEAN =  72 DB
STD. DEVIATION =  13 DB
VARIANCE =169 DB
```

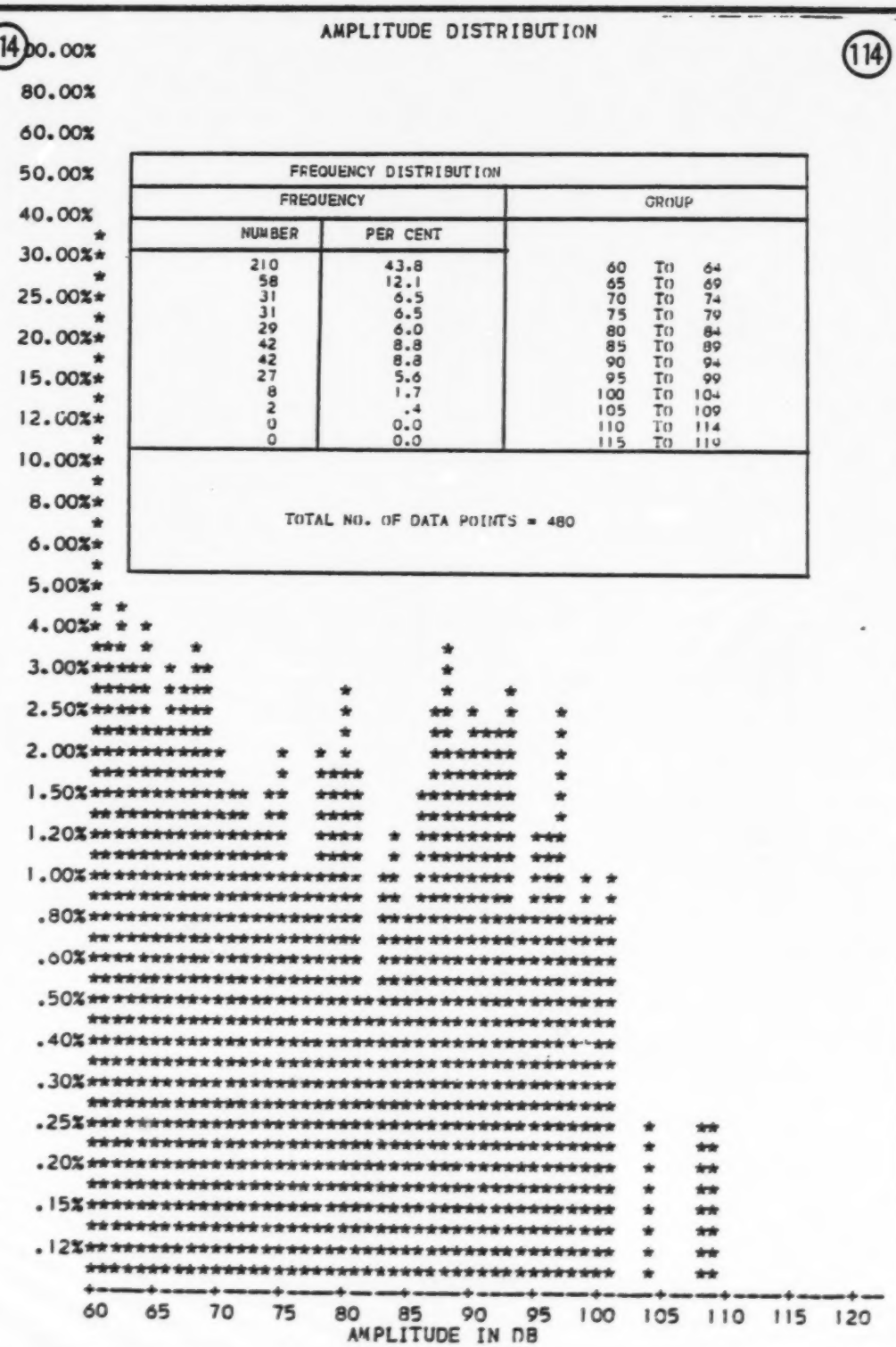
(114)

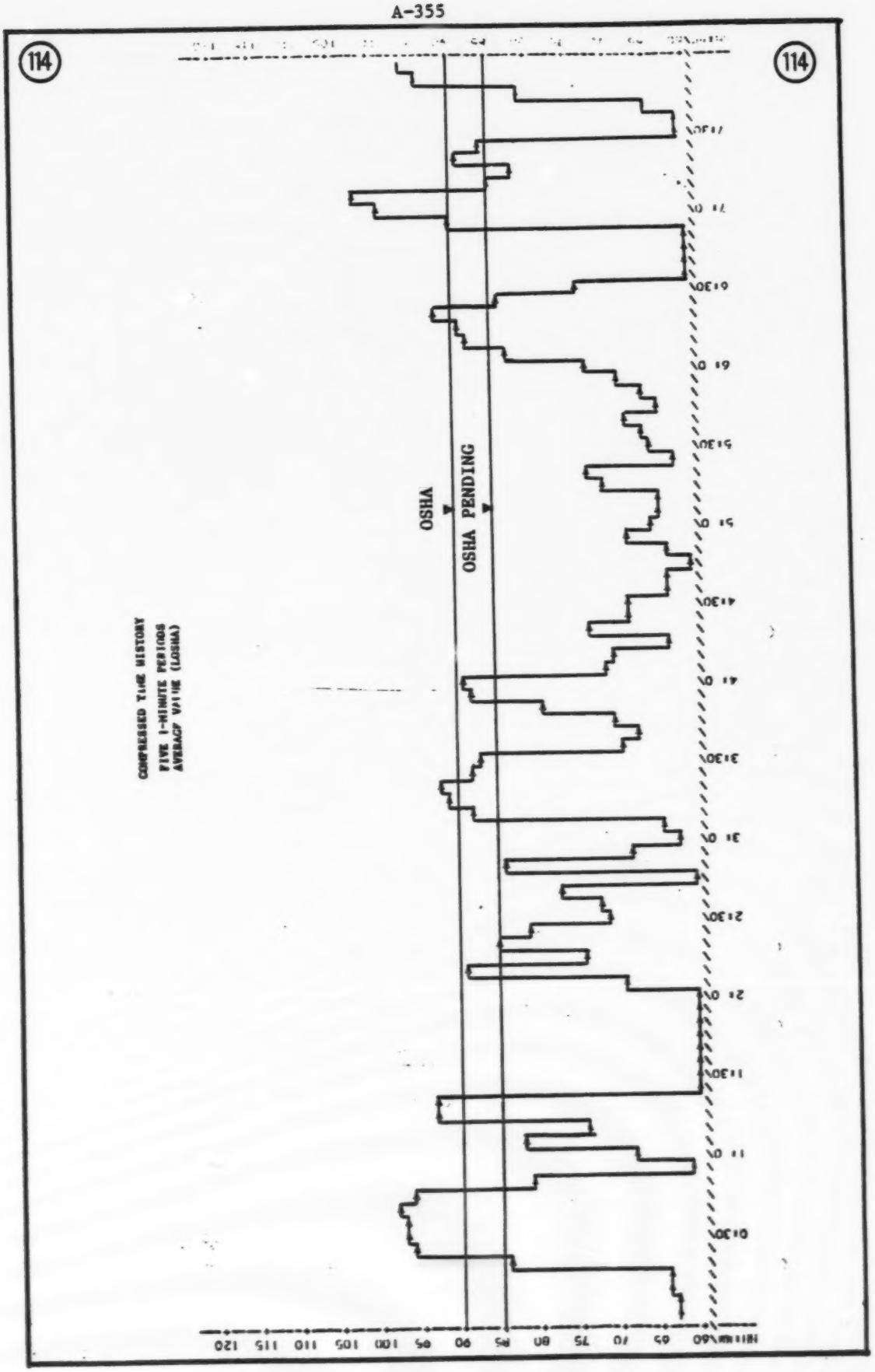
AMPLITUDE DISTRIBUTION

(114) (114)

FREQUENCY DISTRIBUTION		
FREQUENCY		GROUP
NUMBER	PER CENT	
210	43.8	60 To 64
58	12.1	65 To 69
31	6.5	70 To 74
31	6.5	75 To 79
29	6.0	80 To 84
42	8.8	85 To 89
42	8.8	90 To 94
27	5.6	95 To 99
8	1.7	100 To 104
2	.4	105 To 109
0	0.0	110 To 114
0	0.0	115 To 119

TOTAL NO. OF DATA POINTS = 480




114
114
OSHA
OSHA PENDING
COMPRESSED TIME HISTORY
FIVE 1-MINUTE PERIODS
AVERAGE VOICE (LOSHA)
120
115
110
105
100
95
90
85
80
75
70
65
60
0:30
1:00
1:30
2:00
2:30
3:00
3:30
4:00
4:30
5:00
5:30
6:00
6:30
7:00
7:30

APPENDIX 2

Standard job procedure: conventional stope drilling operator

1. When an employee comes to work, his first duty is to report to his shift boss and give him his check-in card.

2. His shiftboss will greet him with a good morning or good evening, discuss the log written by the previous shift on existing conditions and work performed. Discuss any irregularities that may have taken place (i.e., stope working, a series of faults, or loose ground conditions).

3. A safety slip is given to the men with their instructions for the shift written on it. A bit slip is then issued by the supervisor with the required amount of bits written in to perform the shift's work.

4. A commitment to work safely and productively is given by the crew to their supervisor before leaving the wicket.

5. When the men leave the wicket they go directly to the bit room and give their bit slip to the bit man. In return, the bit man gives the men the number of bits indicated on the bit slip. The men count the bits that are in the bag to verify that the right amount of bits are there.

6. The men then go to the toolroom to get a can of paint, a spool of blasting wire and any other material that they may require to perform their shift's work.

7. They will then go to the first aid to pick-up ear plugs and if required, have safety lens changed on their glasses, bandages and aspirins.

8. Then they proceed to the deck where they will await their cage that will transport them to the level they work on.

9. When they arrive on the level, they will check at the station for any repaired machines that may belong to their working place (i.e., stopers, jackleg machines).

10. The men are then transported by mancar to the closest entrance to their work place. The men will then go directly to their work place.

11. On their way into their work place they will check the travelway and the entrance to ensure there is no loose or any irregularities.

12. At the entrance to their work place they put the blasting box handle on short, wash down the slusher platform, check to see if atomizers are on and ensure that box hole guards are up. A visual check is given of the surroundings for good housekeeping. One of the crew enters from top of the stope, removes the slushing sign. The blasting box handle is put on short, the entrance and raise checked and scaled on their way down to the face. All crews responsible for both entrances to stope.

13. When the crew are in the work place they check the area over good for sounding back, wash and scale, give the face and back a visual check to ensure there are no misholes, see what the ground conditions are like and to see how well the previous blast broke. At this time, they also formulate their plans for the shift.

14. The crew will then commence to set up their gear. They blow their air hoses and run the water through their water hoses to ensure that there is no rust in the pipes to plug up their machines.

15. The simplex post is then installed against the back two and a half (2½) feet away from the nearest bolt. The stoper is brought to where the men is going to start bolting. (From raise towards face), the air and water hose is connected, the lubricator is filled and the rest of the gear is brought in (i.e., 2 scaling bars, 1-6' long and one 8' long, drill steel, 2'-4'-6' and possibly a 7' steel 6' rock bolts, rock bolt plates, paint, gad driver, cable and a dolly.

16. The men will then proceed to bolt. As the men bolts, he scales the face, washes marks and flags the lifters. It would be noted that when the men starts bolting, he stands under the existing bolts, that's in the back, he starts from within the raise and works down and across. Also, his simplex post is at all times a distance of two and a half (2½) feet away from him and his scaling bars are within easy reach.

17. After an area of 120 sq. feet has been bolted, (i.e., 10' x 12'), the second driller will set up the jackleg machine, blow his air hose, fill his lubricator, run the water through the water hose and bring his gear to the face. Work up pillar and drill lines.

18. After lunch break is finished (time ranges from ten minutes to half an hour) the men that was bolting will go for the powder and fuse. When the second man has completed the drilling on the face, both men will remove all the gear from the face and pile it neatly in the raise far enough away from the blast so it won't get damaged. One air hose, minus the lubricator, and the scaling bars are left at the face. The air hose is connected to the smex loader and the loading operation starts. When the loading operation is completed, one men will install the thermolite on the face while the other men removes and coils the air hose and removes the scaling bars and cleans the loader.

19. Every second blast of the complete face, one section of the air and water lines are removed from the raise so that pipe will not get damaged by the blast.

20. During loading operation, ensure that fuse are not being bent and pushed into holes. This will cause misholes and check to see that holes are properly loaded and smex is packing in holes properly.

21. A visual check is given of the work area to ensure that none of the gear was forgotten, the lead wire is run from the face to the blasting box, but not connected. The lead wire is tested with a tester (i.e., small battery), the electric starter is tested. The electric starter is then attached to the thermolite. The lead wire is then connected to the starter. (Blasting wire and electric starter are tested for breaks or defects). When everything tests OK, the lead wire is then connected to the blasting box and the handle is put in the fire position. It should be noted that under no circumstances is the blasting handle to be put into the fire position until quitting time.

22. Both men then proceed to the refuge station (lunchroom), report their accomplishments to their supervisors, discuss any irregularities which may exist or occurred, report defective equipment, shortage of material and give their safety slips. They then await the departure of the men car to the station.